TOSHIBA

SERVICE MANUAL

COLOR TELEVISION

N3NS Chassis

32AF43, 32AF53

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

 Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a 120V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

Refer to table-1 for high voltage (A), (B). (See SETTING & ADJUSTING DATA on page 13)

Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.

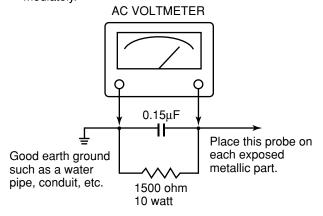
- 2. This receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, the FS circuit must be checked to determine that the circuit is properly functioning, following the FS CIRCUIT CHECK procedure in this manual.
- 3. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
- 4. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

- An isolation Transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
- Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
- 3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
- 4. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner:

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μF , AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 μF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts rms. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF SERVICE MANUAL.

SET-UP ADJUSTMENT

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows:
 - 1. Color Purity
 - 2. Convergence
 - 3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

COLOR PURITY ADUSTMENT

- (1) Let the screen face in the installing direction or toward the east (when it is to be moved), bring up the service mode screen after demagnetizing (front, left, right, and top) with the degaussing coil, receive white signals by pressing the [TV/VIDEO] button, and then the receiver should be operated for more than 40 minutes.
- (2) Perform rough adjustment of the central convergence with the P/C magnet according to the adjustment item.
- (3) Receive built-in green signals, loosen set screws on the deflection yoke, remove rubber wedges, and shift the deflection yoke to toward front.
- (4) Move alternately the two 2-pole magnets of the P/C magnets so that the green raster can come to the center of the screen.

Figure 1.

2-pole purity magnet

(27": Magnet is fixed with deflection yoke.)

Green Belt

Green Belt

Green Belt

P/C magnet installing position A

30"=26.5 mm

32"=30.5 mm or 32.5 mm

34"=37 mm

34"=39 mm

Sub-4-pole convergence magnet (32" : 34")

Sub-4-pole convergence magnet (to be installed on deflection yoke for 30", 32")

(5) Receive built-in red and blue signals, check that there is no inclination of the single color raster toward one side, and if each color tilts to a great extent, make adjustment with the 2-pole magnet so that the 3 colors will come to the center evenly.

Shift deflection voke

- (6) Receive the green raster, shift the deflection yoke from a foremost position (hitting against the picture tube) to a backward position horizontally, stop the deflection yoke at a position where it begins to become a green raster, and perform accurate marking on the picture tube.
- (7) Shift the deflection yoke further backward, and perform accurate marking at a position where the green raster begins to being luck.
- (8) Fix the deflection yoke at a position 60% forward within the range marked in items (6) and (7) above.

Shift deflection yoke (6) (7) Perform marking of each point on the tape of picture tube Picture tube Picture tube Picture tube Picture tube CRT-D board Fix the deflection yoke at a position 60% forward from a point between (6) and (7)

CONVERGENCE ADJUSTMENTS

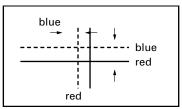
* Adjust the convergence magnet to get vest convergence in the order to (1) ~ (5).

■ CENTER CONVERGENCE:

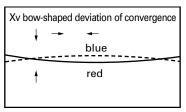
- (1) Receive the white crosshatch or dot pattern from the service signal generator.
- (2) Use the 2 pieces of main 4-pole magnets of P/C magnets, change the open angle, and align the red and blue vertical lines on the screen center.
- (3) Freeze the open angle of the main 4-pole magnets, turn them simultaneously, and align the horizontal lines.
- (4) Take the same steps for items (2) and (3) above and align red/blue with green on the screen center using two 6-pole magnets.

Adjust the sub-4-pole magnets only in case there is any deviation of Xv bow-shaped convergence. (To be usually set at the initial position)

Align both sides with the sub-4-pole magnets and minimize the deviation of blue and red with the main 4-pole magnets.



red/blue red/blue green green



Main 4-pole magnet

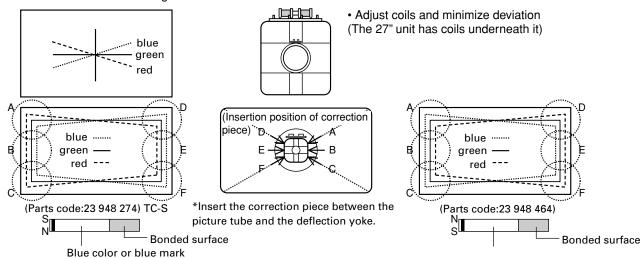
6-pole magnet

Sub-4-pole magnet

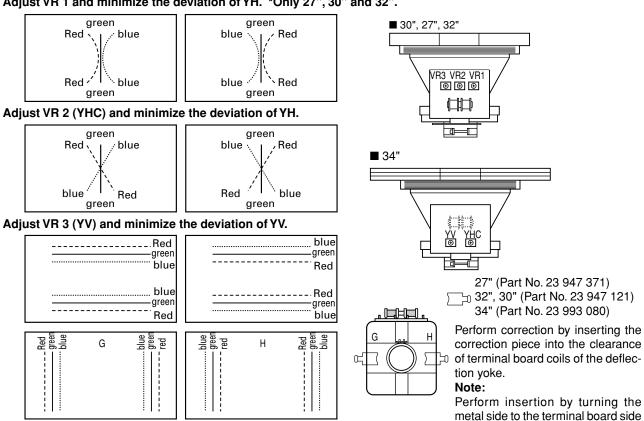
of the deflection yoke.

■ CIRCUMFERENCE CONVERGENCE:

* Perform correction in the following manner.



Adjust VR 1 and minimize the deviation of YH. *Only 27", 30" and 32".



SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press MUTE button once on Remote Control.

2) Press MUTE button again to keep pressing.

3) While pressing the MUTE button, press MENU button on TV set.

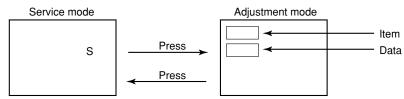
S

MUTE

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:

Test signal selection:

Selection of the adjustment items:

Change of the data value:

TV (ANT)/VIDEO button (on TV)

TV (ANT)/VIDEO button (on Remote)

Volume ▲/▼ (on TV or Remote)

Adjustment menu mode ON/OFF: MENU button (on TV)

Initialization of the memory (QA02) : RECALL+Channel button on TV (▲)
Initialization of the self diagnostic data: RECALL+Channel button on TV (▼)

"RCUT" selection:

"GCUT" selection:

2 button

BCUT" selection:

3 button

SCNT" selection:

4 button

COLC" selection:

5 button

TNTC" selection:

6 button

Self diagnostic display ON/OFF:

9 button

4. SELECTING THE ADJUSTING ITEMS

Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2.
 (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode. (See SETTING & ADJUSTING DATA on page 13)

5. ADJUSTING THE DATA

 Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

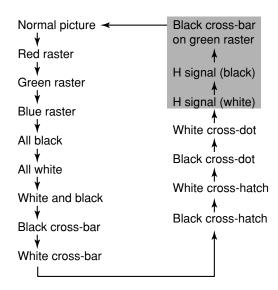
After replacing QA02, the following initialization is required.

- 1. Enter the service mode, then select any register item.
- 2. Press and hold the RECALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
- 3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Programming Channel Memory" on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of TV/VIDEO button on the Remote Control in the Service mode, changes the built-in test patterns on screen in the following order.



Note: If the video cable is connected to the VIDEO1 INPUT jack, the built-in pattern signals are not displayed.

Signals	Picture
Red rasterGreen rasterBlue rasterAll BlackAll White	
Black & White	
Black cross-bar White cross-bar Black cross-bar on green raster	
Black cross-hatch White cross-hatch	
Black cross-dot White cross-dot	
H signal (white) H signal (black)	

^{*} The signals marked with are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

- 1) Press "9" button on Remote Control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's are executed properly.
- 2) During diagnosis, the following displays are shown.

SELF CHECK -NO. 23 * * * * * (1) **(2**) -POWER : 000 (3) -BUS LINE : OK 4 -BUS CONT: OK (5) -BLOCK : MAIN SUB **(6)** -SET ID : 01 (7) -EEP VER : 02 OPT1:05 OPT2:70

1) Part number of microprocessor (QA01)

2 Operation number of protection circuit (current limiter) "000" is normal.

③ BUS line check "OK" Normal "NG" SCL-GND

or SAD-GND short circuit

(4) BUS line ACK (acknowledge) check

"OK" Normal

Display of Location Number NG

(Display example)

"QA02 NG", "H001 NG", "Q501 NG" etc.

Note: The indication of failure place is only one place though failure places are plural. When repair of a failure place finishes, the next failure place is indicated. (The order of priority of indication is left side.)

5 Sync. signal check — Green display Normal

Cyan display No check

Red display NG

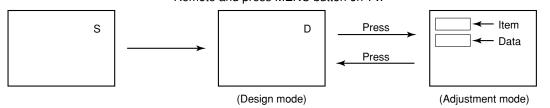
⑥ SET ID : 01 ← SET ID
 ⑦ EEP VER : 02 ← E2P version
 ⑧ OPT1: 05 OPT2 : 70 ← OPT DATA

* The item marked with \blacksquare are not usable to display in the SELF DIAGNOSTIC FUNCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing RECALL button on Remote and press MENU button on TV.



When QA02 is initialized, items "OPT0" and "OPT1" and "OPT2" of DESIGN MODE are set to the data of the representative model of this chassis family.

Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items "OPT0" and "OPT1" and "OPT2".

2. SELECTING THE ADJUSTING ITEMS

Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

Refer to table-3 for data of design mode. (See SETTING & ADJUSTING DATA on page 13)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENT

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	 Enter the service mode, then select any register item. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC)	 Constrict the picture height until the vertical retrace line appears adjusting the HEIGHT control on the MAIN board. Adjust the CONTRAST to the minimum and BRIGHTNESS to the center. Enter the service mode, then select "BRTC" register. Adjust the data value so the belt of vertical retrace line just disappear. Adjust the CONTRAST for the desired contrast. Adjust the HEIGHT control. Vertical retrace line
SUB-COLOR (COLC) SUB-TINT (TNTC)	 Receive color-bar signal from color-bar generator. Press the RESET button. Connect oscilloscope to base of Q906 on CRT-D board. Enter the service mode, then select "COLC". Adjust the SUB-COLOR by pressing the VOLUME ▲ or ▼ button to achieve about 1V_{0-p} of blue bar. Select "TNTC" register. Adjust the data value to obtain the blue bar to magenta bar ratio of 3:2 as shown. Select "COLC" register. Adjust the data value to achieve 1.8V_{0-p} of blue bar on scope. Check the picture with off-air signal.
WIDTH (WID)	 Call up the adjustment mode display, then select the item WID. Press the VOLUME ▲ or ▼ button to get the picture so the left and right edges of raster begins to lack. Press the VOLUME ▲ or ▼ button to advance the data by 7 steps. Note: Check the horizontal picture position is correct.
E-W PARABOLA (DPC)	 Call up the adjustment mode display, then select the item DPC. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. Press the VOLUME ▲ or ▼ button to make vertical lines straight as shown below.

ITEM	ADJUSTMENT PROCEDURE	
HORIZONTAL POSITION (HPOS) VERTICAL POSITION (VPOS)	 Call up the adjustment mode display, then select the item HPOS or VPOS. Press the TV/VIDEO button on Remote until the white cross-bar or black cross-bar pattern appears on the screen. Adjust the HORIZONTAL and VERTICAL position alternately by pressing the VOLUME ▲ or ▼ button for proper picture position. Check the picture with off-air signal. 	
HEIGHT (HIT)	 Call up the adjustment mode display, then select the item HIT. Press the VOLUME ▲ or ▼ button to get the picture so the top of raster begins to lack. Press the VOLUME ▲ button to advance the data by 9 steps. Note: Check the vertical picture position is correct. 	
WHITE BALANCE (RCUT) (GCUT) (BCUT) (GDRV) (BDRV)	 Adjust the CONTRAST control to the center, and BRIGHTNESS control to the maximum. Call up the adjustment mode display, and press the TV/VIDEO button on Remote until the white and black pattern appears on the screen. Adjust the following item with the CHANNEL ▲/▼ and VOLUME ▲/▼ buttons. RCUT → Data : 40H GDRV → Data : 40H GCUT → Data : 40H BDRV → Data : 40H BCUT → Data : 40H 4. Press the TV/VIDEO button on TV to display a single horizontal line on the screen. Turn the SCREEN control (FBT) fully counterclockwise and gradually rotate clockwise until the first horizontal line appears slightly on the screen. Press the TV/VIDEO button to display the normal picture. Adjust the remaining two "?CUT" items (CHANNEL ▲/▼ → TV/VIDEO → VOLUME ▲/▼ in order) to obtain the slightly lighted horizontal line in the same levels of three (red, green, blue) colors. The line should be white if the adjustments are proper. Bright area Adjust "GDRV" or "BDRV" to be white. Dark area Fine adjust "RCUT", "GCUT" or "BCUT" to be black. 	
PIP SUB-BRIGHTNESS (PBOF)		
PIP WHITE BALANCE (PGOF, PROF)	Adjust to match the PIP screen to the brightness, white balance and tint of the main picture.	
PIP SUB-TINT (PHUE)		

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

- Connect an accurate high voltage meter to the second anode of the picture tube.
- Turn on the receiver. Set the BRIGHTNESS and CON-TRAST controls to minimum (zero beam current).
- 3. High voltage must be measured below (B) kV.

Refer to table-1 for high voltage (B). (See SETTING & ADJUSTING DATA on page 13)

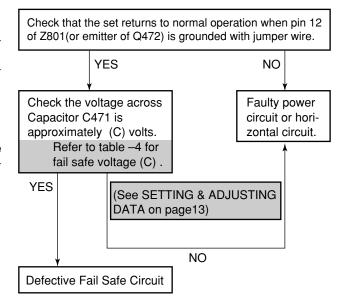
 Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

FS CIRCUIT CHECK

The Fail Safe (FS) circuit check is indispensable for the final check in servicing. Checking should be done following the steps below.

- 1. Turn the receiver on and press the RESET button.
- 2. Temporarily short TP-(R) and TP-(X) with a jumper wire. Raster and sound will disappear.
- 3. The receiver must remain in this state even after removing the jumper wire. This is the evidence that the FS circuit is functioning properly.
- 4. To obtain a picture again, temporarily turn the receiver off and allow the FS circuit more than 5 seconds to reset. Then turn the power switch on to produce a normal picture.

Troubleshooting Guide for Fail Safe Circuit



CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		32"
HIGH VOLTAGE AT ZERO BEAM:	(A)	32.7kV
MAX HIGH VOLTAGE:	(B)	34.1kV

Table-1

【SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Name of adjustment	Preset	Data
RCUT	R CUTOFF	40H	←
GCUT	G CUTOFF	40H	←
BCUT	B CUTOFF	40H	←
GDRV	G DRIVE	40H	←
BDRV	B DRIVE	40H	←
SCNT	SUB-CONTRAST	0AH	←
BRTC	SUB-BRIGHT	40H	←
COLC	SUB-COLOR	ЗАН	←
TNTC	SUB-TINT	44H	←
SAVC	SAP VCO	20H	←
ATT	ATTENUATOR	20H	←
STVC	STEREO VCO	20H	←
STRF	STEREO FILTER	20H	←
SPEC	SPECTRAL	20H	←
WBAN	STEREO SEPARATION	20H	←
HPOS	HORIZ. POSITION	16H	←
VPOS	VERT. POSITION	03H	←

Item	Name of adjustment	Preset	Data
HIT	HEIGHT	20H	
LIN	V-LINEARITY	08H	08H
VSC	V-S CORRECTION	04H	04H
VPS	V-SHIFT	01H	←
VCP	V-COMPENSATION	03H	←
WID	PICTURE WIDTH	17H	17H
DPC	E-W PARABOLA (DPC)	0CH	0CH
CNR	E-W CORNER	02H	02H
TRAP	TRAPEZIUM	06H	06H
HCP	H-COMPENSATION	00H	←
VFC	V-F CORRECTION	0FH	←
PCOL	PIP COLOR	0FH	←
PHUE	PIP TINT	11H	←
PGOF	PIP	36H	←
PROF	PIP	17H	←
PBOF	PIP	17H	←
RGBB	RGB BRIGHT	0BH	←

Table-2

【DESIGN MODE】—

ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	Data	Remarks
OPT1	OPTION1	84H	84H	
OPT2	OPTION2	01H	01H	

Table-3

【CIRCUIT CHECKS 】

		32"
FAIL SAFE DET. VOLTAGE	(C)	22.35 V

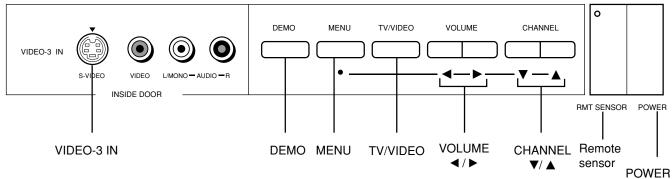
Table-4

LOCATION OF CONTROLS (Representative: 32AF43)



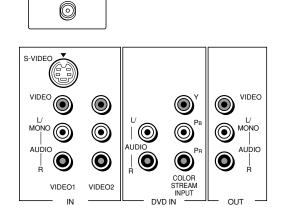


OUTSIDE IND. & CONTROLS: FRONT

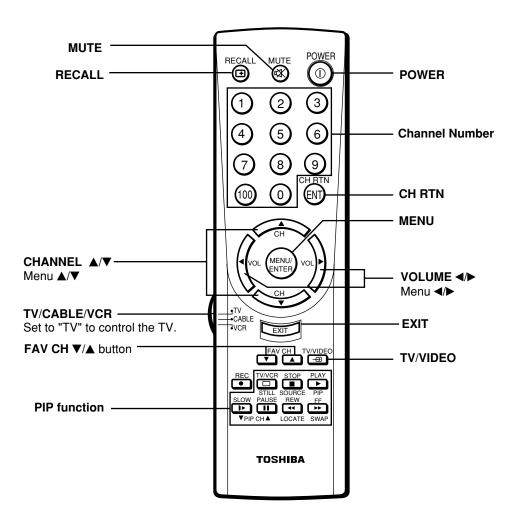


ANT (75Ω)





Remote Control



PROGRAMMING CHANNEL MEMORY

The channel memory is the list of TV channel numbers your TV will stop on when you press the CHANNEL ▲ or ▼ button. First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area automatically. If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels. Note: If you utilize both ANT-1 and ANT-2 terminals for some model, perform programming channels for each input source.

TV/CABLE function

- 2 Press ▼ (or ▲) until "TV/CABLE" is highlighted.
- **3** Press ▶ or ◀ to highlight either "TV" or "CABLE", whichever you use.

CH PROGRAM function

- 1 Select "CH PROGRAM" following steps 1 and 2 above.
- Press ➤ or ◀ to start channel programming.

 The TV will automatically cycle through all the TV or CABLE channels selected by the TV/CABLE function, and store active channels in the channel memory.
- 3 When channel programming is complete, you will see the message to the right appears.
- 4 Press CHANNEL ▲ or ▼ to make sure the channel programming has been done properly.

ADD/ERASE function

After performing the CH PROGRAM function, you can add or erase specific channels.

- Select the channel you want to erase using the CHAN-NEL ▲ or ▼ button, or select the channel you want to add using the Channel Number buttons.
- 2 Press **MENU**, then press ▶ or ◀ until the SET UP menu appears.
- 3 Press ▼ (or ▲) until "ADD/ERASE" is highlighted.
- **1** Press ▶ or **4**:

To erase the channel

Press the button until "ERASE" is highlighted.

To add the channel

Press the button until "ADD" is highlighted.

5 Repeat steps 1 to 4 for other channels.

You have now completed the channel programming.

Note: The CHANNEL ▼/▲ buttons on the TV function as the ▼/▲ buttons while a menu is on the screen.

^{*}Please refer to owner's manual in detail.

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "\(\underline{\Lambda}\)" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Model: 32AF43, 32AF53

OMF: Oxide Metal Film VR: Variable Resistor FR: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACIT	TORS	
C039	24105050	CERAMIC CHIP, 50V CH 5PF C
C102	24793221	ELECTROLYTIC, 10V 220UF M
C105	24109102	CERAMIC CHIP, 50V B 1000PF K
C106	24797479	ELECTROLYTIC, 50V 4.7UF M
C107	24794221	ELECTROIYTIC, 16V 220UF M
C201	24503041	PLASTIC FILM, 63V 0.1UF J
C204	24797010	ELECTROLYTIC, 50V 1UF M
C205	24794100	ELECTROLYTIC, 16V 10UF M
C207	24105270	CERAMIC CHIP, 50V CH 27PF J
C208	24105270	CERAMIC CHIP, 50V CH 27PF J
C209	24105270	CERAMIC CHIP, 50V CH 27PF J
C213	24503041	PLASTIC FILM, 63V 0.1UF J
C216	24797100	ELECTROLYTIC, 50V 10UF M
C220	24503049	PLASTIC FILM, 63V 0.47UF J
C221	24109103	CERAMIC CHIP, 50V B 0.01UF K
C222	24109103	CERAMIC CHIP, 50V B 0.01UF K
C223	24109103	CERAMIC CHIP, 50V B 0.01UF K
C224	24503041	PLASTIC FILM, 63V 0.1UF J
C225	24503041	PLASTIC FILM, 63V 0.1UF J
C226	24503041	PLASTIC FILM, 63V 0.1UF J
C245	24109103	CERAMIC CHIP, 50V B 0.01UF K
C261	24503041	PLASTIC FILM , 63V 0.1UF J
C262	24503041	PLASTIC FILM, 63V 0.1UF J
C263	24503041	PLASTIC FILM, 63V 0.1UF J
C271	24105561	CERAMIC CHIP, 50V CH 560PF J
C301	24214152	CERAMIC DISC, 500V B 1500PF K
C304	24693273	PLASTIC FILM, 100V 0.027UF J
C305	24617915	ELECTROLYTIC, 50V 1UF K 3A LI
C306	24073059	ELECTROLYTIC, 25V 3300UF M 3A
C308	24669221	ELECTROLYTIC, 50V 220UF M 3A
C309	24436101	CERAMIC DISC, 50V SL 100PF J
C310	24073094	ELECTROLYTIC, 50V 1000UF M 3A
C312	24591102	PLASTIC FILM, 50V 1000PF J
C313	24082057	PLASTIC FILM, 100V 0.22UF J
C315	24109102	CERAMIC CHIP, 50V B 1000PF K
C317	24214471	CERAMIC DISC, 500V B 470PF K
C319	24109473	CERAMIC CHIP, 25V B 0.047UF K
C320	24669101	ELECTROLYTIC, 50V 100UF M 3A

Location No.	Parts No.	Description
C323	24503049	PLASTIC FILM, 63V 0.47UF J
C324	24503037	MT PLA CAP, 63V 0.047UF J
C325	24503039	PLASTIC FILM, 63V 0.068UF J
C326	24092730	CERAMIC CHIP, 16V B 0.1UF K
C327	24617915	ELECTROLYTIC, 50V 1UF K 3A LI
C337	24797229	ELECTROLYTIC, 50V 2.2UF M
C360	24793221	ELECTROLYTIC, 10V 220UF M
C361	24794101	ELECTROLYTIC, 16V 100UF M
C366	24693154	PLASTIC FILM CQ921 M 100V 0.15MF J
C370	24668101	ELECTROLYTIC, 35V 100UF M 3A
C371	24668100	ELECTROLYTIC, 35V 10UF M 3A
C391	24666100	ELECTROLYTIC, 10V 10UF M 3A
C393	24666100	ELECTROLYTIC, 10V 10UF M 3A
C396	24082825	PLASTIC FILM, 1800VH 1800PF H
C399	24085981	ELEC. NONPOLAR CE04J 16V 10UF M 11L NP
C403	24109103	CERAMIC CHIP, 50V B 0.01UF K
C404	24797010	ELECTROLYTIC, 50V 1UF M
C407	24092730	CERAMIC CHIP, 16V B 0.1UF K
C408	24109273	CERAMIC CHIP CC73B, 25V 27NF K
C409	24763221	ELECTROLYTIC, 16V 220UF M
C410	24232103	CERAMIC DISC, 50V F 0.01UF Z
C413	24214821	CERAMIC DISC, 500V B 820PF K
C415	24539224	PLASTIC FILM, 50V 0.22UF J
C416	24678229	ELECTROLYTIC, 200V 2.2UF M 3A
C417	24214391	CERAMIC DISC, 500V B 390PF K
C430	24109103	CERAMIC CHIP, 50V B 0.01UF K
C431	24794101	ELECTROLYTIC, 16V 100UF M
C439	24503125	PLASTIC FILM, 400V 0.075UF J
C441	24503305	PLASTIC FILM CF92 T 315V R62UF J
△ C442	24503301	PLASTIC FILM CF92 T 315V R39UF J
	24503274	PLASTIC FILM CF92 T 1500VH 7800PF H
△ C444	24503194	PLASTIC FILM, 1500VH 0.01UF H
C445	24828563	PLASTIC FILM, 200V 56000PF J
C446	24679100	ELECTROLYTIC, 250V 10UF M 3A
C448	24640908	ELECTROLYTIC, 160V 33UF M 3A LI
C450	24829393	PLASTIC FILM, 400V 0.039UF J
C451	24085981	ELEC. NONPOLAR CE04J 16V 10UF M 11L NP
C463	24212222	CERAMIC DISC, 50V B 2200PF K
C464	24640872	ELECTROLYTIC, 100V 10UF M 3A

Location No.	Parts No.	Description
C466	24503041	PLASTIC FILM , 63V 0.1UF J
△ C467	24095879	PLASTIC FILM, 630V 0.022UF H
△ C469	24095879	PLASTIC FILM, 630V 0.022UF H
C471	24797479	ELECTROLYTIC, 50V 4.7UF M
C473	24797479	ELECTROLYTIC, 50V 4.7UF M
C474 C480	24797479 24669220	ELECTROLYTIC, 50V 4.7UF M ELECTROLYTIC, 50V 22UF M 3A
C481	24503049	PLASTIC FILM, 63V 0.47UF J
C482	24797478	ELECTROLYTIC. 50V 0.47UF M
C499	24109102	CERAMIC CHIP, 50V B 1000PF K
C501	24212102	CERAMIC DISC, 50V B 1000PF K
C504	24109222	CERAMIC CHIP, 50V B 2200PF K
C505	24105120	CERAMIC CHIP, 50V CH 12PF J
C510	24794101	ELECTROLYTIC, 16V 100UF M
C511	24109103	CERAMIC CHIP, 50V B 0.01UF K
C512	24206228	ELECTROLYTIC, 50V 0.22UF M 7L 3A
C582	24109103	CERAMIC CHIP, 50V B 0.01UF K
C583 C612	24762471 24794470	ELECTROLYTIC, 10V 470UF M ELECTORLYTIC, 16V 47UF M
C613	24109103	CERAMIC CHIP, 50V B 0.01UF K
C661	24109102	CERAMIC CHIP. 50V B 1000PF K
C662	24109102	CERAMIC CHIP, 50V B 1000PF K
C663	24666100	ELECTROLYTIC, 10V 10UF M 3A
C672	24796470	ELECTROLYTIC, 35V 47UF M
C673	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C674	24669010	ELECTROLYTIC, 50V 1UF M 3A
C675	24669010	ELECTROLYTIC, 50V 1UF M 3A
C676	24285104	CERAMIC CHIP, 50V B 0.1UF K
C677	24285104	CERAMIC CHIP, 50V B 0.1UF K
C678	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C681 C682	24668102 24669221	ELECTROLYTIC, 35V 1000UF M 3A ELECTROLYTIC, 50V 220UF M 3A
C683	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C684	24100103	CERAMIC CHIP, 50V F 0.01UF Z
C704	24232103	CERAMIC DISC, 50V F 0.01UF Z
C705	24232103	CERAMIC DISC, 50V F 0.01UF Z
C707	24794101	ELECTROLYTIC, 16V 100UF M
C713	24709100	ELECTROLYTIC, 200V 10UF M
C714	24436101	CERAMIC DISC, 50V SL 100PF J
C715	24214472	CERAMIC DISC, 500V B 4700PF K
C716	24436101	CERAMIC DISC, 50V SL 100PF J
C717	24214472	CERAMIC DISC, 500V B 4700PF K ELECTORLYTIC, 16V 47UF M
C718	24794470	CERAMIC DISC, 500V SL 56PF J
C719 C720	24435560 24709100	ELECTROLYTIC, 200V 10UF M
C720	24709100	ELECTROLITIC, 200V 1001 M ELECTORLYTIC, 16V 47UF M
C726	24212102	CERAMIC DISC, 50V B 1000PF K
△ C801	24503002	PLASTIC FILM, AC275V 0.22UF M
△ C802	24503001	PLASTIC FILM, AC275V 0.1UF M
C805	24092623	CERAMIC DISC, 250V F 0.01UF Z
C806	24092623	CERAMIC DISC, 250V F 0.01UF Z
C808	24667221	ELECTROLYTIC, 25V 220UF M 3A
C810	24086061	ELECTROLYTIC, 200V 470UF M 3F
△ C811	24092581	CERAMIC DISC, AC250V E 1000PF M
⚠ C812	24092581	CERAMIC DISC, AC250V E 2200PE M
△ C813 C817	24092583 24092339	CERAMIC DISC, AC250V E 2200PF M CERAMIC DISC, 2KV 330PF K
C817	24092339	PLASTIC FILM CF92 T 1250VH 2200PF H
C821	24214471	CERAMIC DISC, 500V B 470PF K
C823	24212471	CERAMIC DISC, 50V B 470PF K
C829	24591152	PLASTIC FILM, 50V 1500PF J
C830	24590223	PLASTIC FILM, 50V 0.022UF J
C830	24503047	PLASTIC FILM, 63V 0.33UF J
C831	24503047	PLASTIC FILM, 63V 0.33UF J
C832	24503047	PLASTIC FILM, 63V 0.33UF J

Location No.	Parts No.	Description
C834	24503047	PLASTIC FILM, 63V 0.33UF J
C840	24795221	ELECTROLYTIC, 25V 220UF M
C842	24792101	ELECTROLYTIC, 6.3V 100UF M
C843	24797479	ELECTROLYTIC, 50V 4.7UF M
C884	24086052	ELECTRORYTIC, 200V 220UF M 22A
C886	24214471	CERAMIC DISC, 500V B 470PF K
C889	24796222	ELECTROLYTIC, 35V 2200UF M
C890 C891	24214471 24503041	CERAMIC DISC, 500V B 470PF K PLASTIC FILM , 63V 0.1UF J
C893	24092339	CERAMIC DISC, 2KV 330PF K
C896	24794471	ELECTROLYTIC, 16V 470UF M
C897	24794222	ELECTROLYTIC, 16V 2200UF M
C898	24503045	PLASTIC FILM, 63V 0.22UF J
C902	24092353	CERAMIC DISC, 2KV 4700PF K
C904	24436331	CERAMIC DISC, 50V SL 330PF J
C905	24436331	CERAMIC DISC, 50V SL 330PF J
C907	24436331	CERAMIC DISC, 50V SL 330PF J
C909	24679220	ELECTROLYTIC, 250V 22UF M 3A
C910	24797478	ELECTROLYTIC, 50V 0.47UF M
C911 C912	24203100 24794471	ELECTORLYTIC, 16V 10UF M 7L 3A ELECTROLYTIC, 16V 470UF M
C912	24794471	ELECTROLYTIC, 16V 4700F M
C914	24212103	CERAMIC DISC, 50V B 10000PF K
C920	24232103	CERAMIC DISC, 50V F 0.01UF Z
C921	24232103	CERAMIC DISC, 50V F 0.01UF Z
C930	24214101	CERAMIC DISC, 500V B 100PF K
C970	24794470	ELECTORLYTIC, 16V 47UF M
C971	24794470	ELECTORLYTIC, 16V 47UF M
C972	24794470	ELECTORLYTIC, 16V 47UF M
C2701	24109103	CERAMIC CHIP, 50V B 0.01UF K
C2702	24503049	PLASTIC FILM, 63V 0.47UF J
C2703 C2704	24109472 24794100	CERAMIC CHIP, 50V B 4700PF K ELECTROLYTIC, 16V 10UF M
C2704	24105150	CERAMIC CHIP, 50V CH 15PF J
C2710	24109103	CERAMIC CHIP, 50V B 0.01UF K
C2711	24794100	ELECTROLYTIC, 16V 10UF M
C2715	24109103	CERAMIC CHIP, 50V B 0.01UF K
C3440	24503230	PLASTIC FILM CF92 T 1250VH 1100PF H
CA13	24105470	CERAMIC CHIP, 50V CH 47PF J
CA33	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA36	24108101	CERAMIC CHIP, 50V SL 100PF J
CA37	24108101	CERAMIC CHIP, 50V SL 100PF J
CA38	24108101	CERAMIC CHIP, 50V SL 100PF J
CA42 CA43	24794100 24109103	ELECTROLYTIC, 16V 10UF M CERAMIC CHIP, 50V B 0.01UF K
CA43	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA69	24109103	CERAMIC CHIP, 50V B 0.01UF K
CB01	24794470	ELECTORLYTIC, 16V 47UF M
CB41	24763221	ELECTROLYTIC, 16V 220UF M
CB48	24108101	CERAMIC CHIP, 50V SL 100PF J
CD41	24109332	CERAMIC CHIP, 50V B 3300PF K (32AF53)
CD42	24109333	CERAMIC CHIP CK73B 25V 33000PFK (32AF53)
CD43	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD44	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD45	24109182	CERAMIC CHIP, 50V B 1800PF K (32AF53)
CD46	24092753	CERAMIC CHIP, 10V B 0.22UF K (32AF53) CERAMIC CHIP, 50V B 0.01UF K (32AF53)
CD47 CD48	24109103 24794100	ELECTROLYTIC, 16V 10UF M (32AF53)
CD48	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CD50	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD51	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD52	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CD53	24794221	ELECTROIYTIC, 16V 220UF M (32AF53)

Location No.	Parts No.	Description
CD54	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD55	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD56	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD57	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CD58	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF53)
CD59	24092753	CERAMIC CHIP, 10V B 0.22UF K (32AF53)
CD60	24109182	CERAMIC CHIP, 50V B 1800PF K (32AF53)
CD61	24797479	ELECTROLYTIC, 50V 4.7UF M (32AF53)
CD62 CD63	24797479 24109333	ELECTROLYTIC, 50V 4.7UF M (32AF53) CERAMIC CHIP CK73B 25V 33000PFK (32AF53)
CD64	24109332	CERAMIC CHIP, 50V B 3300PF K (32AF53)
CD86	24797100	ELECTROLYTIC, 50V 10UF M (32AF53)
CD88	24797100	ELECTROLYTIC, 50V 10UF M (32AF53)
CD89	24797100	ELECTROLYTIC, 50V 10UF M (32AF53)
CD90	24797100	ELECTROLYTIC, 50V 10UF M (32AF53)
CD91	24797100	ELECTROLYTIC, 50V 10UF M (32AF53)
CG01	24794100	ELECTROLYTIC, 16V 10UF M
CG02	24092730	CERAMIC CHIP, 16V B 0.1UF K
CG03	24794100	ELECTROLYTIC, 16V 10UF M
CG04	24109123	CERAMIC CHIP CK73B, 50V 12000PF K
CG05	24092730	CERAMIC CHIP, 16V B 0.1UF K
CG06	24797479	ELECTROLYTIC, 50V 4.7UF M
CG07	24794100	ELECTROLYTIC, 16V 10UF M
CG08	24794100 24797479	ELECTROLYTIC, 16V 10UF M ELECTROLYTIC, 50V 4.7UF M
CG09 CG10	24797479	ELECTROLYTIC, 30V 4.70F M
CG10	24794101	ELECTROLYTIC, 16V 10UF M
CG12	24797479	ELECTROLYTIC, 50V 4.7UF M
CG13	24794100	ELECTROLYTIC, 16V 10UF M
CG14	24109272	CERAMIC CHIP, 50V B 2700PF K
CG15	24109473	CERAMIC CHIP, 25V B 0.047UF K
CG16	24704335	TA SOLID ELEC.CS15H 16V 3.3UF M
CG17	24794100	ELECTROLYTIC, 16V 10UF M
CG18	24088094	CHIP TA SOLID, 20V 10UF M B2-CAS
CG19	24669010	ELECTROLYTIC, 50V 1UF M 3A
CG20	24797229	ELECTROLYTIC, 50V 2.2UF M (32AF43)
CG21	24797229	ELECTROLYTIC, 50V 2.2UF M (32AF43)
CG22	24109223	CERAMIC CHIP, 25V B 0.022UF K
CG23	24109472	CERAMIC CHIP, 50V B 4700PF K
CG24	24794100	ELECTROLYTIC, 16V 10UF M
CG25 CG26	24092730 24109472	CERAMIC CHIP, 16V B 0.1UF K CERAMIC CHIP, 50V B 4700PF K
CG27	24794100	ELECTROLYTIC, 16V 10UF M
CG27	24794100	ELECTROLYTIC, 16V 10UF M
CG29	24092730	CERAMIC CHIP, 16V B 0.1UF K
CG30	24794100	ELECTROLYTIC, 16V 10UF M
CG31	24794100	ELECTROLYTIC, 16V 10UF M
CG32	24794100	ELECTROLYTIC, 16V 10UF M
CG33	24794100	ELECTROLYTIC, 16V 10UF M
CG40	24109562	CERAMIC CHIP CK73B, 50V 5600PF K
CG60	24797220	ELECTROLYTIC, 50V 22UF M
CG61	24797220	ELECTROLYTIC, 50V 22UF M
CG62	24797229	ELECTROLYTIC, 50V 2.2UF M
CG63	24797010	ELECTROLYTIC, 50V 1UF M
CG65	24109103	CERAMIC CHIP, 50V B 0.01UF K
CG66	24794470	ELECTORLYTIC, 16V 47UF M
CG68	24794100	ELECTROLYTIC, 16V 10UF M
CG69	24797479	ELECTROLYTIC, 50V 4.7UF M
CG70	24794220	ELECTROLYTIC, 16V 22UF M ELECTROLYTIC, 16V 10UF M
CG71	24794100	ELECTROLYTIC, 16V 10UF M ELECTROIYTIC, 16V 220UF M
CG72 CG80	24794221 24794100	ELECTROLYTIC, 16V 2200F M ELECTROLYTIC, 16V 10UF M
CG80	24194100	CERAMIC CHIP, 25V F 0.1UF Z
CI01	24100104	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
CI02	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI03	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI04	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI05	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI07	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI08	24797010	ELECTROLYTIC, 50V 1UF M
CI09	24105470	CERAMIC CHIP, 50V CH 47PF J
CI10	24105180	CERAMIC CHIP, 50V CH 18PF J
CI11 CI12	24105270 24797478	CERAMIC CHIP, 50V CH 27PF J ELECTROLYTIC, 50V 0.47UF M
Cl13	24109102	CERAMIC CHIP, 50V B 1000PF K
CI14	24105470	CERAMIC CHIP, 50V CH 47PF J
CI15	24105390	CERAMIC CHIP, 50V CH 39PF J
CI16	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI17	24092726	CERAMIC CHIP CK733B, 16V 2,200,000PFK
CI18	24105181	CERAMIC CHIP, 50V CH 180PF J
CI21	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI23	24109103	CERAMIC CHIP, 50V B 0.01UF K
CI25	24105240	CERAMIC CHIP, 50V CH 24PF J
CI51 CI52	24797220 24794101	ELECTROLYTIC, 50V 22UF M ELECTROLYTIC, 16V 100UF M
CI52	24797339	ELECTROLYTIO, 50V 3.3UF M
CJ03	24539104	PLASTIC FILM, 50V 0.1UF J
CM51	24503041	PLASTIC FILM , 63V 0.1UF J
CM58	24503041	PLASTIC FILM , 63V 0.1UF J
CS02	24797229	ELECTROLYTIC, 50V 2.2UF M
CS04	24797229	ELECTROLYTIC, 50V 2.2UF M
CS05	24797100	ELECTROLYTIC, 50V 10UF M
CS06	24797100	ELECTROLYTIC, 50V 10UF M
CS14	24797229	ELECTROLYTIC, 50V 2.2UF M
CS16 CS25	24797229 24797229	ELECTROLYTIC, 50V 2.2UF M ELECTROLYTIC, 50V 2.2UF M
CS25	24797229	ELECTROLYTIC, 50V 2.2UF M
CS40	24797010	ELECTROLYTIC, 50V 1UF M
CS42	24797010	ELECTROLYTIC, 50V 1UF M
CS43	24105331	CERAMIC CHIP, 50V CH 330PF J
CS44	24105331	CERAMIC CHIP, 50V CH 330PF J
CS45	24109331	CERAMIC CHIP, 50V B 330PF K
CS46	24109331	CERAMIC CHIP, 50V B 330PF K
CS47	24105331	CERAMIC CHIP, 50V CH 330PF J
CS48	24105331	CERAMIC CHIP, 50V CH 330PF J
CS49	24105331	CERAMIC CHIP, 50V CH 330PF J
CS60 CS61	24105331 24109102	CERAMIC CHIP, 50V CH 330PF J CERAMIC CHIP, 50V B 1000PF K
CS62	24109102	CERAMIC CHIP, 50V B 1000PF K
CS70	24794220	ELECTROLYTIC, 16V 22UF M
CS71	24794220	ELECTROLYTIC, 16V 22UF M
CS115	24797010	ELECTROLYTIC, 50V 1UF M
CS116	24797010	ELECTROLYTIC, 50V 1UF M
CS118	24794470	ELECTORLYTIC, 16V 47UF M
CS120	24797010	ELECTROLYTIC, 50V 1UF M
CS625	24797479	ELECTROLYTIC, 50V 4.7UF M
CS626	24797479	ELECTROLYTIC, 50V 4.7UF M
CS627 CS628	24797479 24797479	ELECTROLYTIC, 50V 4.7UF M ELECTROLYTIC, 50V 4.7UF M
CS630	24797479	ELECTROLYTIC, 30V 4.70F M ELECTROLYTIC, 16V 100UF M
CV03	24206108	ELECTROLYTIC, 50V 0.1UF M 7L 3A
CV05	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV09	24503041	PLASTIC FILM , 63V 0.1UF J
CV13	24206108	ELECTROLYTIC, 50V 0.1UF M 7L 3A
CV15	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV24	24109473	CERAMIC CHIP, 25V B 0.047UF K
CV25	24794220	ELECTROLYTIC, 16V 22UF M
CV27	24092730	CERAMIC CHIP, 16V B 0.1UF K
CV29	24109103	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
CV31	24092730	CERAMIC CHIP, 16V B 0.1UF K
CV38	24763471	ELECTROLYTIC, 16V 470UF M
CV39	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV41	24092730	CERAMIC CHIP, 16V B 0.1UF K
CV61 CZ03	24762471 24092442	ELECTROLYTIC, 10V 470UF M CERAMIC CHIP, 16V F 0.47UF Z (32AF43)
CZ05	24109103	CERAMIC CHIP, 10V F 0.470F 2 (32AF43) CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ07	24092178	CERAMIC CHIP, 25V B 0.1UF K (32AF43)
CZ09	24108220	CERAMIC CHIP, 50V SL 22PF J (32AF43)
CZ10	24108100	CERAMIC CHIP, 50V SL 10PF D (32AF43)
CZ11	24108220	CERAMIC CHIP, 50V SL 22PF J (32AF43)
CZ12	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ13	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ14	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A (32AF43)
CZ17 CZ19	24109103 24108181	CERAMIC CHIP, 50V B 0.01UF K (32AF43) CERAMIC CHIP, 50V SL 180PF J (32AF43)
CZ20	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ21	24109103	CERAMIC CHIP, 50V B 1200PF K (32AF43)
CZ22	24794100	ELECTROLYTIC, 16V 10UF M (32AF43)
CZ23	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ24	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ25	24794100	ELECTROLYTIC, 16V 10UF M (32AF43)
CZ26	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ28	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ29	24109103	CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ30 CZ31	24794100 24109103	ELECTROLYTIC, 16V 10UF M (32AF43) CERAMIC CHIP, 50V B 0.01UF K (32AF43)
CZ32	24109103	CERAMIC CHIP, 50V SL 15PF J (32AF43)
CZ33	24108390	CERAMIC CHIP, 50V SL 39PF J (32AF43)
CZ34	24108150	CERAMIC CHIP, 50V SL 15PF J (32AF43)
CZ35	24108390	CERAMIC CHIP, 50V SL 39PF J (32AF43)
CZ37	24794100	ELECTROLYTIC, 16V 10UF M (32AF43)
CZ38	24794100	ELECTROLYTIC, 16V 10UF M (32AF43)
CZ41	24108470	CERAMIC CHIP, 50V SL 47PF J (32AF43)
CZ42 CZ45	24108470 24108100	CERAMIC CHIP, 50V SL 47PF J (32AF43) CERAMIC CHIP, 50V SL 10PF D (32AF43)
CZ150	24794101	ELECTROLYTIC, 16V 100UF M
CZ020	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ030	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ040	24105181	CERAMIC CHIP, 50V CH 180PF J (32AF53)
CZ050	24105680	CERAMIC CHIP, 50V CH 68PF J (32AF53)
CZ060	24105330	CERAMIC CHIP, 50V CH 33PF J (32AF53)
CZ070	24794101	ELECTROLYTIC, 16V 100UF M (32AF53)
CZ080	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ090 CZ100	24109103 24794101	CERAMIC CHIP, 50V B 0.01UF K (32AF53) ELECTROLYTIC, 16V 100UF M (32AF53)
CZ110	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ120	24105101	CERAMIC CHIP, 50V CH 100PF J (32AF53)
CZ130	24105101	CERAMIC CHIP, 50V CH 100PF J (32AF53)
CZ140	24105151	CERAMIC CHIP, 50V CH 150PF J (32AF53)
CZ250	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ350	24792101	ELECTROLYTIC, 6.3V 100UF M (32AF53)
CZ360	24792101	ELECTROLYTIC, 6.3V 100UF M (32AF53)
CZ370	24792101	ELECTROLYTIC, 6.3V 100UF M (32AF53)
CZ380 CZ390	24792101 24792101	ELECTROLYTIC, 6.3V 100UF M (32AF53) ELECTROLYTIC, 6.3V 100UF M (32AF53)
CZ400	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ410	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ420	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ430	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ440	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ450	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ460	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ470	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ480	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)

Location No.	Parts No.	Description
CZ490	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ500	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ510	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ520	24794100	ELECTROLYTIC, 16V 10UF M (32AF53) CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ530 CZ540	24092730 24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ570	24105181	CERAMIC CHIP, 50V CH 180PF J (32AF53)
CZ580	24105560	CERAMIC CHIP, 50V CH 56PF J (32AF53)
CZ600	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ610	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ620	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ630	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ640	24105101	CERAMIC CHIP, 50V CH 100PF J (32AF53)
CZ650	24092573	CERAMIC CHIP, 16V B 0.47UF K (32AF53)
CZ660	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ670	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ680	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ690 CZ700	24092730 24100104	CERAMIC CHIP, 16V B 0.1UF K (32AF53) CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ700 CZ710	24100104	CERAMIC CHIP, 25V F 0.10F 2 (32AF53) CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ710	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ730	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ740	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ750	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ760	24092573	CERAMIC CHIP, 16V B 0.47UF K (32AF53)
CZ770	24092730	CERAMIC CHIP, 16V B 0.1UF K (32AF53)
CZ830	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ840	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ960	24105270	CERAMIC CHIP, 50V CH 27PF J (32AF53)
CZ970	24794101	ELECTROLYTIC, 16V 100UF M (32AF53)
CZ980	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
CZ990	24100104	CERAMIC CHIP, 25V F 0.1UF Z (32AF53)
RESISTO	RS	
R101	24382223	OXIDE METAL FILM, 1W 22K OHM J
R201	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R202	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R203	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R204	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
R205	24366152	CARBON FILM, 1/6W 1.5K OHM J
R206	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
H207 R208	24011101 24011101	CHIP, METAL FILM, 1/20W 100 OHM J CHIP, METAL FILM, 1/20W 100 OHM J
R209	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R216	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R219	24366223	CARBON FILM, 1/6W 22K OHM J
R223	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R227	24366133	CARBON FILM, 1/6W 13K OHM J (32AF43)
R227	24366682	CARBON FILM, 1/6W 6.8K OHM J (32AF53)
R228	24366333	CARBON FILM, 1/6W 33K OHM J
R238	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R240	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R245	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R261	24011472	CARRON FILM 1/6W 1K OHM J
R262 R263	24366102 24011472	CARBON FILM, 1/6W 1K OHM J CHIP, METAL FILM, 1/20W 4.7K OHM J
R263 R264	24366102	CARBON FILM, 1/6W 1K OHM J
R265	24366102	CHIP, METAL FILM, 1/20W 4.7K OHM J
R266	24011102	CHIP, METAL FILM, 1/20W 4.7K OHM J
R271	24011102	CHIP, METAL FILM, 1/20W 470 OHM J
R272	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R275	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R303	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
R304	24366623	CARBON FILM, 1/6W 62K OHM J
R305	24322828	OXIDE METAL FILM, 1W 0.82 OHM J

Location No.	Parts No.	Description
R306	24366683	CARBON FILM, 1/6W 68K OHM J
R307	24366684	CARBON FILM, 1/6W 680K OHM J
R311	24366332	CARBON FILM, 1/6W 3.3K OHM J
R312	24366153	CARBON FILM, 1/6W 15K OHM J
R313	24366104	CARBON FILM, 1/6W 100K OHM J
R314	24366104	CARBON FILM, 1/6W 100K OHM J
R315	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R316	24366154	CARBON FILM, 1/6W 150K OHM J
R317	24366102	CARBON FILM, 1/6W 1K OHM J
R318	24011473	CHIP, METAL FILM, 1/20W 47K OHM J OXIDE METAL FILM, 2W 4.7 OHM J
R328	24339479 24011684	CHIP, METAL FILM, 1/20W 680K OHM J
R332	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R336	24383181	OXIDE METAL FILM, 2W 180 OHM J
R345	24382332	OXIDE FILM, 1W 3.3K J
R360	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R368	24545479	FUSIBLE, 1/4W 4.7 OHM J
R369	24366391	CARBON FILM, 1/6W 390 OHM J
⚠ R370	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
R371	24366103	CARBON FILM, 1/6W 10K OHM J
R372	24366392	CARBON FILM, 1/6W 3.9K OHM J
R373	24366102	CARBON FILM, 1/6W 1K OHM J
R374	24366163	CARBON FILM, 1/6W 16K OHM J
R379	24382103	OXIDE METAL FILM, 1W 10K OHM J
R389	24366472	CARBON FILM, 1/6W 4.7K OHM J
R392	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R394	24366102	CARBON FILM, 1/6W 1K OHM J
R396	24366103	CARBON FILM, 1/6W 10K OHM J
R397	24366103	CARBON FILM, 1/6W 10K OHM J
R398	24366184	CARBON FILM, 1/6W 18OK OHM J
R399	24366103	CARBON FILM, 1/6W 10K OHM J
R400 R401	24946561 24011391	CARBON COMPOSITION, 1/2W 560 OHM K CHIP, METAL FILM, 1/20W 390 OHM J
R403	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
R405	24382682	OXIDE METAL FILM, 1/20W 6.8K OHM J
R406	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R407	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R408	24366472	CARBON FILM, 1/6W 4.7K OHM J
R410	24366271	CARBON FILM, 1/6W 270 OHM J
R411	24366561	CARBON FILM, 1/6W 560 OHM J
R415	24553272	OXIDE METAL FILM, 1W 2.7K OHM J
R416	24019329	OXIDE FILM, 5W 3R3K J
R418	24383181	OXIDE METAL FILM, 2W 180 OHM J
R430	24366102	CARBON FILM, 1/6W 1K OHM J
R431	24366103	CARBON FILM, 1/6W 10K OHM J
R432	24366202	CARBON FILM, 1/6W 2K OHM J
R433	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R441	24532102	FUSIBLE, 1W 1K OHM J
R443	24382153	OXIDE METAL FILM, 1W 15K OHM J
R445	24310229	OXIDE METAL FILM, 1/2W 2.2 OHM J
R450 R456	24366103 24011103	CARBON FILM, 1/6W 10K OHM J CHIP, METAL FILM, 1/20W 10K OHM J
R456 R458	24011103	CHIP, METAL FILM, 1/20W 10K OHM J CHIP, METAL FILM, 1/20W 100K OHM J
R460	24366562	CARBON FILM, 1/6W 5.6K OHM J
R461	24366182	CARBON FILM, 1/6W 1.8K OHM J
R463	24322399	OXIDE METAL FILM, 1W 3.9 OHM J
R464	24366103	CARBON FILM, 1/6W 10K OHM J
R466	24366103	CARBON FILM, 1/6W 10K OHM J
R472	24382270	OXIDE FILM, 1W 27 J
△ R475	24366471	CARBON FILM, 1/6W 470 OHM J
R476	24366823	CARBON FILM, 1/6W 82K OHM J
R477	24366273	CARBON FILM, 1/6W 27K OHM J
△ R478	24327133	METAL FILM, 1/4W 13K OHM F
R480	24366123	CARBON FILM, 1/6W 12K OHM J
R481	24366333	CARBON FILM, 1/6W 33K OHM J

Location No.	Parts No.	Description
△ R482	24327472	METAL FILM, 1/4W 4R7K F
R483	24366103	CARBON FILM, 1/6W 10K OHM J
△ R485	24338478	OXIDE METAL FILM, 1W 0.47 OHM J
R486	24552820	OXIDE METAL FILM, 1/2W 82 OHM J
R487	24552301	OXIDE METAL FILM, 1/2W 300 OHM J
R488	24327183	METAL FILM, 1/4W 18K OHM F
R489	24327183	METAL FILM, 1/4W 18K OHM F
R490	24366102	CARBON FILM, 1/6W 1K OHM J
R493	24366102	CARBON FILM, 1/6W 1K OHM J
R494	24366471	CARBON FILM, 1/6W 470 OHM J
R495	24366560	CARBON FILM, 1/6W 56 OHM J
R501	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R502	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R503	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R508	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R509	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R510	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R511	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R612	24366103	CARBON FILM, 1/6W 10K OHM J
R613	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R614	24366102	CARBON FILM, 1/6W 1K OHM J
R661	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R662	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R663	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R664	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R667	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R668	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R669	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R674	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R676	24366229	CARBON FILM, 1/6W 2.2 OHM J
R677	24366229	CARBON FILM, 1/6W 2.2 OHM J
R678	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J CHIP JUMPER, 2125TYPE
R679 R702	24000824 24366681	CARBON FILM, 1/6W 680 OHM J
R702	24366563	CARBON FILM, 1/6W 56K OHM J
R713	24366393	CARBON FILM, 1/6W 39K OHM J
R714	24552121	OXIDE METAL FILM. 1/2W 120 OHM J
R715	24366273	CARBON FILM, 1/6W 27K OHM J
R716	24366333	CARBON FILM, 1/6W 33K OHM J
R717	24366333	CARBON FILM, 1/6W 33K OHM J
R718	24366101	CARBON FILM, 1/6W 100 OHM J
R719	24366392	CARBON FILM, 1/6W 3.9K OHM J
R720	24366392	CARBON FILM, 1/6W 3.9K OHM J
R722	24366102	CARBON FILM, 1/6W 1K OHM J
R723	24366471	CARBON FILM, 1/6W 470 OHM J
R724	24366820	CARBON FILM, 1/6W 82 OHM J
R725	24366182	CARBON FILM, 1/6W 1.8K OHM J
R730	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R731	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R732	24366820	CARBON FILM, 1/6W 82 OHM J
R733	24366683	CARBON FILM, 1/6W 68K OHM J
R734	24366820	CARBON FILM, 1/6W 82 OHM J
R735	24366683	CARBON FILM, 1/6W 68K OHM J
R736	24366620	CARBON FILM, 1/6W 62 OHM J
R737	24366152	CARBON FILM, 1/6W 1.5K OHM J
R738	24366102	CARBON FILM, 1/6W 1K OHM J
R739	24366152	CARBON FILM, 1/6W 1.5K OHM J
R740	24366620	CARBON FILM, 1/6W 62 OHM J
R741	24366279	CARBON FILM, 1/6W 2.7 OHM J
R742	24366279	CARBON FILM, 1/6W 2.7 OHM J
R743	24554221	OXIDE METAL FILM, 2W 220 OHM J
R744	24366122	CARBON FILM, 1/6W 1.2K OHM J
R745	24366122	CARBON FILM, 1/6W 1.2K OHM J
R803	24004943	METAL FILM, 1W 0.12 OHM J
⚠ R808	24019493	THERMISTOR, PTC, AC140V 1.5 OHM M

Location No.	Parts No.	Description
⚠ R810	24568828	CERAMIC COVERED, 7W 0.82 OHM K (32AF43)
△ R810	24569828	CERAMIC COVERED, G 10W 0.82 J (32AF53)
R814	24366122	CARBON FILM, 1/6W 1.2K OHM J
R815	24552332	OXIDE METAL FILM, 1/2W 3.3K OHM J
R818	24510150	CERAMIC COVERED, 5W 15 OHM J
R820	24004942	METAL FILM, 1W 0.1 OHM J
R821	24321479	OXIDE METAL FILM, 1/2W 4.7 OHM J
R823	24366122	CARBON FILM, 1/6W 1.2K OHM J
R829	24004942	METAL FILM, 1W 0.1 OHM J
R835	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R861	24553223	OXIDE METAL FILM, 1W 22K OHM J
R883	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R884	24366471	CARBON FILM, 1/6W 470 OHM J
R885	24366102	CARBON FILM, 1/6W 1K OHM J
R891	24366102	CARBON FILM, 1/6W 1K OHM J
△ R898	24010001	CARBON FILM, 1/2W 3.9M OHM J
R901	24376561	CARBON FILM, 1/2W 560 OHM J
R902	24376561	CARBON FILM, 1/2W 560 OHM J
R903	24376561	CARBON FILM, 1/2W 560 OHM J
R904	24366103	CARBON FILM, 1/6W 10K OHM J
R905	24366101	CARBON FILM, 1/6W 100 OHM J
R912	24366102	CARBON FILM, 1/6W 1K OHM J
R914	24366561	CARBON FILM, 1/6W 560 OHM J
R915	24366101	CARBON FILM, 1/6W 100 OHM J
R916	24366680	CARBON FILM, 1/6W 68 OHM J
R917	24366471	CARBON FILM, 1/6W 470 OHM J
R918	24366820	CARBON FILM, 1/6W 82 OHM J
R919	24366102	CARBON FILM, 1/6W 1K OHM J
⚠ R920	24000910	FUSIBLE, 1W 3.3 OHM J
R921	24366561	CARBON FILM, 1/6W 560 OHM J
R922	24366101	CARBON FILM, 1/6W 100 OHM J
R923	24366391	CARBON FILM, 1/6W 390 OHM J
R924	24366820	CARBON FILM, 1/6W 82 OHM J
R925	24366471	CARBON FILM, 1/6W 470 OHM J
R926	24366102	CARBON FILM, 1/6W 1K OHM J
R928	24366561	CARBON FILM, 1/6W 560 OHM J
R929	24366101	CARBON FILM, 1/6W 100 OHM J
R930	24366820	CARBON FILM, 1/6W 82 OHM J
R932	24366272	CARBON FILM, 1/6W 2.7K OHM J
R933	24366750	CARBON FILM, 1/6W 75 OHM J
R934	24366391	CARBON FILM, 1/6W 390 OHM J
R935	24366821	CARBON FILM, 1/6W 820 OHM J
R936	24366750	CARBON FILM, 1/6W 75 OHM J
R937	24366471	CARBON FILM, 1/6W 470 OHM J
R939	24366680	CARBON FILM, 1/6W 68 OHM J
R940	24366821	CARBON FILM, 1/6W 820 OHM J
R942	24366392	CARBON FILM, 1/6W 3.9K OHM J
R943	24366392	CARBON FILM, 1/6W 3.9K OHM J
R944	24366392	CARBON FILM, 1/6W 3.9K OHM J
R945	24366680	CARBON FILM, 1/6W 68 OHM J
R946	24366680	CARBON FILM, 1/6W 68 OHM J
R947	24366103	CARBON FILM, 1/6W 10K OHM J
R948	24366103	CARBON FILM, 1/6W 10K OHM J
R949	24366103	CARBON FILM, 1/6W 10K OHM J
R950	24366302	CARBON FILM, 1/6W 3K OHM J
R951	24366682	CARBON FILM, 1/6W 6.8K OHM J
R952	24366101	CARBON FILM, 1/6W 100 OHM J
R955	24366122	CARBON FILM, 1/6W 1.2K OHM J
R957	24366822	CARBON FILM, 1/6W 8.2K OHM J
R960	24383153	OXIDE METAL FILM, 2W 15K OHM J
R961	24383153	OXIDE METAL FILM, 2W 15K OHM J
R962	24383153	OXIDE METAL FILM, 2W 15K OHM J
R963	24383153	OXIDE METAL FILM, 2W 15K OHM J
R964	24383153	OXIDE METAL FILM, 2W 15K OHM J

Location No.	Parts No.	Description
R965	24383153	OXIDE METAL FILM, 2W 15K OHM J
R973	24366472	CARBON FILM, 1/6W 4.7K OHM J
R976	24366561	CARBON FILM, 1/6W 560 OHM J
R977	24366122	CARBON FILM, 1/6W 1.2K OHM J
R978	24366561	CARBON FILM, 1/6W 560 OHM J
R979	24366561	CARBON FILM, 1/6W 560 OHM J
R980	24366471	CARBON FILM, 1/6W 470 OHM J
R981 R982	24366821 24366103	CARBON FILM, 1/6W 820 OHM J CARBON FILM, 1/6W 10K OHM J
R983	24366222	CARBON FILM, 1/6W 10K OHM J
R984	24367152	CARBON FILM, 1/6W 1.5K OHM G
R985	24367471	CARBON FILM, 1/6W 470 OHM G
R986	24367681	CARBON FILM, 1/6W 680 OHM G
R987	24367681	CARBON FILM, 1/6W 680 OHM G
R988	24367472	CARBON FILM, 1/6W 4.7K OHM G
R989	24367332	CARBON FILM, 1/6W 3.3K OHM G
R990	24366222	CARBON FILM, 1/6W 2.2K OHM J
R991	24367681	CARBON FILM, 1/6W 680 OHM G
R992	24366150	CARBON FILM, 1/6W 15 OHM J
R993	24366471	CARBON FILM, 1/6W 470 OHM J
R994	24366392	CARBON FILM, 1/6W 3.9K OHM J
R997	24366272	CARBON FILM, 1/6W 2.7K OHM J
R998 R999	24366472 24366472	CARBON FILM, 1/6W 4.7K OHM J CARBON FILM, 1/6W 4.7K OHM J
R2701	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
R2701	24011103	CHIP, METAL FILM, 1/20W 1M OHM J
R2703	24011332	CHIP, METAL FILM, 1/20W 1X OHM J
R2705	24366102	CARBON FILM, 1/6W 1K OHM J
R2706	24366102	CARBON FILM, 1/6W 1K OHM J
R2707	24366221	CARBON FILM, 1/6W 220 OHM J
R2708	24366331	CARBON FILM, 1/6W 330 OHM J
R2709	24366331	CARBON FILM, 1/6W 330 OHM J
R2710	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2711	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R2712	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
⚠ R3440 R3442	24338129 24005016	METAL FILM, 1W 1R2 J METAL GLAZE. 1/2W 180K OHM J
R3443	24005016	METAL GLAZE, 1/2W 180K OHM J
R3444	24005016	METAL GLAZE, 1/2W 180K OHM J
R3445	24005016	METAL GLAZE, 1/2W 180K OHM J
	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4461	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4462	24011133	CHIP, METAL FILM, 1/20W 13K OHM J
R4463	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R4465	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4466	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4467	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4468	24011472	CARRON FILM, 1/20W 4.7K OHM J
R4761 R4765	24366102 24366221	CARBON FILM, 1/6W 1K OHM J CARBON FILM, 1/6W 220 OHM J
RA02	24366102	CARBON FILM, 1/6W 1K OHM J
RA03	24366102	CARBON FILM, 1/6W 1K OHM J
RA04	24366102	CARBON FILM, 1/6W 1K OHM J
RA05	24366102	CARBON FILM, 1/6W 1K OHM J
RA06	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA07	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA08	24366102	CARBON FILM, 1/6W 1K OHM J
RA09	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA15	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA16	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA17	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA20 RA21	24011221 24366102	CHIP, METAL FILM, 1/20W 220 OHM J CARBON FILM, 1/6W 1K OHM J
RA21	24366102	CHIP, METAL FILM, 1/20W 330 OHM J
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Location No.	Parts No.	Description
RA23	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA24	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA25	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA27 RA33	24011102 24011103	CHIP, METAL FILM, 1/20W 1K OHM J CHIP, METAL FILM, 1/20W 10K OHM J
RA35	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA36	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA37	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA38	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA40	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA41	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA61	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA62	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA67	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA68	24011472 24366683	CHIP, METAL FILM, 1/20W 4.7K OHM J CARBON FILM, 1/6W 68K OHM J
RA71 RA72	24366223	CARBON FILM, 1/6W 66K OHM J
RA73	24366103	CARBON FILM, 1/6W 10K OHM J
RA74	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA201	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RB03	24366101	CARBON FILM, 1/6W 100 OHM J
RB11	24366271	CARBON FILM, 1/6W 270 OHM J
RB12	24366103	CARBON FILM, 1/6W 10K OHM J
RB13	24366470	CARBON FILM, 1/6W 47 OHM J
RB21	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RB22	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RB23	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB24	24011472 24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J CHIP, METAL FILM, 1/20W 4.7K OHM J
RB25 RB30	24366103	CARBON FILM, 1/6W 10K OHM J
RB43	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB45	24011181	CHIP, METAL FILM, 1/20W 180 OHM J
RB46	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB47	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RB48	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB49	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RD41	24011104	CHIP, METAL FILM, 1/20W 100K OHM J (32AF53)
RD42	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF53)
RD43	24366101	CARBON FILM, 1/6W 100 OHM J (32AF53)
RD45	24366221	CARBON FILM, 1/6W 220 OHM J (32AF53)
RD48	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF53)
RD49	24011104	CHIP, METAL FILM, 1/20W 100K OHM J (32AF53)
RD79	24011105	CHIP, METAL FILM, 1/20W 1M OHM J (32AF53)
RD80	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J (32AF53)
RD81	24011105	CHIP, METAL FILM, 1/20W 1M OHM J (32AF53)
RD82	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J (32AF53)
RG01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J CHIP, METAL FILM, 1/20W 100 OHM J
RG02	24011101	CHIP, METAL FILM, 1/20W 100 OHM J CHIP, METAL FILM, 1/20W 100 OHM J
RG03 RG04	24011101 24011105	CHIP, METAL FILM, 1/20W 100 OHM J CHIP, METAL FILM, 1/20W 1M OHM J
RG05	24011103	CHIP, METAL FILM, 1/20W 1M OHM J
RG06	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RG07	24000405	CHIP, 1/16W 62K OHM F
RG08	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RG09	24011302	CHIP, METAL FILM, 1/20W 3K OHM J

Location No.	Parts No.	Description
RG10	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RG13	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
		(32AF43)
RG14	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
		(32AF43)
RG15	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RG17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF43)
RG18	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF43)
RG19	24011105	CHIP, METAL FILM, 1/20W 1M OHM J (32AF53)
RG20	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RG21	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RG22	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RG23	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RG24	24011105	CHIP, METAL FILM, 1/20W 1M OHM J (32AF53)
RG25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RG26 RG27	24011104 24011101	CHIP, METAL FILM, 1/20W 100K OHM J CHIP, METAL FILM, 1/20W 100 OHM J
RG60	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RG61	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RG62	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RG63	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
RG66	24366562	CARBON FILM, 1/6W 5.6K OHM J
RG67	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
RG68	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RG69	24011564	CHIP, METAL FILM, 1/20W 560K OHM J
RG70	24366102	CARBON FILM, 1/6W 1K OHM J
RG71	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
		(32AF43)
RG71	24011333	CHIP, METAL FILM, 1/20W 33K OHM J (32AF53)
RG80	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RG81	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RG82	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RG83 RG84	24011102 24366102	CHIP, METAL FILM, 1/20W 1K OHM J CARBON FILM, 1/6W 1K OHM J
RG85	24366103	CARBON FILM, 1/6W 10K OHM J
RI01	24011270	CHIP, METAL FILM, 1/20W 27 OHM J
RI02	24011512	CHIP, METAL FILM, 1/20W 5.1K OHM J
RI03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RI04	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RI05	24011361	CHIP, METAL FILM, 1/20W 360 OHM J
RI06	24011519	METAL FILM CHIP, 1/16W 5.1 J
RI07	24011360	METAL FILM CHIP, 1/20W 36 J
RI08	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RI09	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RI11	24011113 24011112	CHIP, METAL FILM, 1/20W 11K OHM J CHIP, METAL FILM, 1/20W 1.1K OHM J
RI13 RI14	24011112	CHIP, METAL FILM, 1/20W 1.TK OHM J
RI15	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RI16	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RI17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RI18	24011132	CHIP, METAL FILM, 1/20W 1.3K OHM J
RI19	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RI20	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
RI21	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RI22	24011475	METAL FILM CHIP, 1/16W 4R7M K
RI23	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RI27	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RI28 RI30	24011123 24011102	CHIP, METAL FILM, 1/20W 12K OHM J CHIP, METAL FILM, 1/20W 1K OHM J
RI30	24366750	CARBON FILM, 1/6W 75 OHM J
RI33	24011124	CHIP, METAL FILM, 1/20W 120K OHM J
RI35	24011563	CHIP, METAL FILM, 1/20W 56K OHM J

Location No.	Parts No.	Description
RI36	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
RI51	24066046	VARIABLE. CARBON, 0.1W 20K N
RI52	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RJ01	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
RJ02	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
RJ06	24366623	CARBON FILM, 1/6W 62K OHM J
RJ08	24366623	CARBON FILM, 1/6W 62K OHM J
RJ09 RJ12	24366333 24366473	CARBON FILM, 1/6W 33K OHM J CARBON FILM, 1/6W 47K OHM J
RJ13	24366473	CARBON FILM, 1/6W 4.7K OHM J
RJ14	24366472	CARBON FILM, 1/6W 4.7K OHM J
RJ15	24366133	CARBON FILM, 1/6W 13K OHM J
RJ17	24366682	CARBON FILM, 1/6W 6.8K OHM J
RJ30	24000445	CHIP J (32AF53)UMPER, J (32AF53)
RJ41	24000445	CHIP JUMPER, 1608TYPE
RJ42	24000445	CHIP JUMPER, 1608TYPE
RJ43	24000445	CHIP JUMPER, 1608TYPE
RJ44	24000445	CHIP JUMPER, 1608TYPE
RJ45	24000445	CHIP JUMPER, 1608TYPE
RJ46	24000445	CHIP JUMPER, 1608TYPE
RJ47 RR07	24000445 24011681	CHIP JUMPER, 1608TYPE CHIP, METAL FILM, 1/20W 680 OHM J
RR08	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RR93	24011002	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS02	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS05	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS14	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS16	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS25 RS26	24011562 24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J CHIP, METAL FILM, 1/20W 5.6K OHM J
RS40	24011362	CHIP, METAL FILM, 1/20W 5.5K OHM J
RS42	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RS43	24366103	CARBON FILM, 1/6W 10K OHM J
RS44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS60	24366101	CARBON FILM, 1/6W 100 OHM J
RS61	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS62	24366101	CARBON FILM, 1/6W 100 OHM J
RS63	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS64	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS65	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS66 RS68	24011102 24011223	CHIP, METAL FILM, 1/20W 1K OHM J CHIP, METAL FILM, 1/20W 22K OHM J
RS69	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS70	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS71	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS101	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RS102	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RS105	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS107	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS108	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS109	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS109	24011433	(32AF43) CHIP, METAL FILM, 1/20W 43K OHM J
RS113	24011103	(32AF53) CHIP, METAL FILM, 1/20W 10K OHM J
		(32AF43)
RS113	24011433	CHIP, METAL FILM, 1/20W 43K OHM J (32AF53)
RS611	24366101	CARBON FILM, 1/6W 100 OHM J
RS612	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS613	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
D0014	04011101	CUID METAL FILM 1/20W 100 CUM I
RS614 RS615	24011101 24011101	CHIP, METAL FILM, 1/20W 100 OHM J CHIP, METAL FILM, 1/20W 100 OHM J
RS616	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV02	24011750	CHIP. METAL FILM, 1/20W 75 OHM J
RV04	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV05	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV07	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV12	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV19	24366750	CARBON FILM, 1/6W 75 OHM J
RV20	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV22	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV61	24366101	CARBON FILM, 1/6W 100 OHM J
RV62 RV63	24011750 24366101	CHIP, METAL FILM, 1/20W 75 OHM J CARBON FILM, 1/6W 100 OHM J
RV66	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV120	24366750	CARBON FILM, 1/6W 75 OHM J
RW01	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RW02	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RW03	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RZ01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF43)
RZ02	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF43)
RZ03	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
		(32AF43)
RZ04	24011431	CHIP, METAL FILM, 1/20W 430 OHM J
		(32AF43)
RZ05	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ06	24011921	(32AF43) CHIP, METAL FILM, 1/20W 820 OHM J
NZU0	24011821	(32AF43)
RZ08	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
11200	21011122	(32AF43)
RZ09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
		(32AF43)
RZ10	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
		(32AF43)
RZ12	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
		(32AF43)
RZ13	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
D744	04044004	(32AF43)
RZ14	24011821	CHIP, METAL FILM, 1/20W 820 OHM J (32AF43)
RZ15	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
11213	24011021	(32AF43)
RZ17	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
		(32AF43)
RZ18	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
		(32AF43)
RZ19	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
		(32AF43)
RZ20	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
		(32AF43)
RZ22	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
D700	0.4000000	(32AF43)
RZ29	24366331	CARBON FILM, 1/6W 330 OHM J (32AF43)
RZ30 RZ010	24366331	CARBON FILM, 1/6W 330 OHM J (32AF43) CARBON FILM, 1/6W 33 OHM J (32AF53)
RZ010 RZ020		CHIP, METAL FILM, 1/20W 1.5K OHM J
112020	L701110L	(32AF53)
RZ030	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
555		(32AF53)
RZ040	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
		(32AF53)
RZ050	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)

Location No.	Parts No.	Description
RZ060	24011681	CHIP, METAL FILM, 1/20W 680 OHM J (32AF53)
RZ070	24871331	CHIP, METAL FILM, 1/8W 330 OHM J (32AF53)
	24011151	CHIP, METAL FILM, 1/20W 150 OHM J (32AF53)
RZ090	24366330	CARBON FILM, 1/6W 33 OHM J (32AF53)
RZ100	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)
RZ110	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)
RZ120	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J (32AF53)
RZ130	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J (32AF53)
RZ140	24011123	CHIP, METAL FILM, 1/20W 12K OHM J (32AF53)
RZ150	24011151	CHIP, METAL FILM, 1/20W 150 OHM J (32AF53)
RZ160	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J (32AF53)
RZ170	24871181	CHIP, METAL FILM, 1/8W 180 OHM J (32AF53)
RZ180	24011121	CHIP, METAL FILM, 1/20W 120 OHM J (32AF53)
RZ210	24011271	CHIP, METAL FILM, 1/20W 270 OHM J (32AF53)
RZ243	24011220	CHIP, METAL FILM, 1/20W 22 OHM J (32AF53)
	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J (32AF53)
RZ245	24011220	CHIP, METAL FILM, 1/20W 22 OHM J (32AF53)
RZ246	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J (32AF53)
RZ265	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J (32AF53)
RZ266	24011103	CHIP, METAL FILM, 1/20W 10K OHM J (32AF53)
RZ280	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)
RZ330	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF53)
RZ340	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF53)
RZ370	24000445	CHIP J (32AF53)UMPER, J (32AF53)
RZ380	24011103	CHIP, METAL FILM, 1/20W 10K OHM J (32AF53)
RZ400	24000445	CHIP J (32AF53)UMPER, J (32AF53)
RZ410	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
D7400	04044470	(32AF53)
	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J (32AF53)
RZ430	24000445	CHIP J (32AF53)UMPER, J (32AF53)
	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)
	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)
	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF53)
	24000445	CHIP J (32AF53)UMPER, J (32AF53)
	24000445	CHIP J (32AF53)UMPER, J (32AF53)
	24011101	CHIP, METAL FILM, 1/20W 100 OHM J (32AF53)
	24011102	CHIP, METAL FILM, 1/20W 1K OHM J (32AF53)
	TRANSFOR	
L101	23289845	COIL, PEAKING, TRF4680AT
L201	23238703	COIL, PEAKING, TRF4820AJ
L301	23103880	COIL, CHOKE, TEM2011Y
L400	23238714	COIL HOUZ LINEARITY TUN2082AT
⚠ L441 L442	23233036 23248121	COIL, HOLIZ LINEARITY, TLN2083AT COIL, CHOKE, TLN3383D
£442 ⚠ L461	23248290	COIL, CHOKE, TLN3333GH
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L500 23289840 COIL, PEAKING, TRF4100AT L501 23289844 COIL, PEAKING, TRF4470AT L502 23289844 COIL, PEAKING, TRF4470AT L702 23261974 COIL, FERRITE BEAD, HC5-035 L704 23103859 FILTER, FERRITE CHOKE, TEM2011 L705 23103859 FILTER, FERRITE CHOKE, TEM2011 L805 23248213 COIL, CHOKE, TLN3481AH L806 23248213 COIL, CHOKE, TLN3481AH L815 23103145 FERRITE CHOKE, TEM2011AA L816 23103145 FERRITE CHOKE, TEM2011AA L883 23103145 FERRITE CHOKE, TEM2011AA L886 23248073 COIL, CHOKE, TLN3299D L886 23103145 FERRITE CHOKE, TEM2011AA L888 23280016 COIL, CHOKE, TEM2011AA L889 23280016 COIL, PEAKING, TRF4100AZ L890 23103145 FERRITE CHOKE, TEM2011AA L890 23103145 FERRITE CHOKE, TEM2011AA L890 2328016 COIL, PEAKING, TRF4100AZ L890 2328016 COIL, PEAKING, TRF4100AZ L901 23200559 COIL, DG 0.65CU 42T-2LOOP, TSB-2412AF L902 23289101 COIL, PEAKING, TRF4101AF L903 23289101 COIL, PEAKING, TRF4101AF L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF L906 23289390 COIL, PEAKING, TRF4390AF	
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L886 23103145 FERRITE CHOKE, TEM2011AA L888 23280016 COIL, PEAKING, TRF4100AZ L889 23280016 COIL, PEAKING, TRF4100AZ L890 23103145 FERRITE CHOKE, TEM2011AA L893 23280016 COIL, PEAKING, TRF4100AZ △ L901 23200559 COIL, DG 0.65CU 42T-2LOOP, TSB-2412AF L902 23289101 COIL, PEAKING, TRF4101AF L903 23289101 COIL, PEAKING, TRF4101AF L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF	
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L889 23280016 COIL, PEAKING, TRF4100AZ L890 23103145 FERRITE CHOKE, TEM2011AA L893 23280016 COIL, PEAKING, TRF4100AZ Δ L901 23200559 COIL, DG 0.65CU 42T-2LOOP, TSB-2412AF L902 23289101 COIL, PEAKING, TRF4101AF L903 23289101 COIL, PEAKING, TRF4101AF L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF	
L890 23103145 FERRITE CHOKE, TEM2011AA L893 23280016 COIL, PEAKING, TRF4100AZ Δ L901 23200559 COIL, DG 0.65CU 42T-2LOOP, TSB-2412AF L902 23289101 COIL, PEAKING, TRF4101AF L903 23289101 COIL, PEAKING, TRF4101AF L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF	
L893 23280016 COIL, PEAKING, TRF4100AZ ⚠ L901 23200559 COIL, DG 0.65CU 42T-2LOOP, TSB-2412AF L902 23289101 COIL, PEAKING, TRF4101AF L903 23289101 COIL, PEAKING, TRF4101AF L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF	
 ▲ L901 23200559 COIL, DG 0.65CU 42T-2LOOP, TSB-2412AF L902 23289101 COIL, PEAKING, TRF4101AF L903 23289101 COIL, PEAKING, TRF4101AF L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF 	
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L904 23289101 COIL, PEAKING, TRF4101AF L905 23289390 COIL, PEAKING, TRF4390AF	
L905 23289390 COIL, PEAKING, TRF4390AF	
L907 23289390 COIL, PEAKING, TRF4390AF	
L908 23289100 COIL, PEAKING, TRF4100AF	
L910 23237991 COIL, PEAKING, TRF4479AC	
L2704 23103145 FERRITE CHOKE, TEM2011AA	
L2705 23103906 FILTER, CHIP BEAD INDUCTOR, TEM2118	AS
L2711 23289840 COIL, PEAKING, TRF4100AT	
LA01 23289100 COIL, PEAKING, TRF4100AF	
LB01 23262302 COIL, IF COIL 11.8MHZ 5SVL, TRF1247AH	
LI01 23246051 COIL, CHIP-INDUCTOR-0.22MMH K,	
COLTRF4R22CE	
LI02 23246104 CHIP INDUCTOR, TRFR5C	
LI51 23289470 COIL, PEAKING, TRF4470AF	
LI52 23289120 COIL, PEAKING, TRF4120AF	
LI53 23289180 COIL, PEAKING, TRF4180AF	
LI54 23232050 COIL, VARIABLE, TRF3554D LI55 23289129 COIL, PEAKING 1.0MMH J 0405, TRF41R2.	۸.
LI55 23289129 COIL, PEAKING 1.0MMH J 0405, TRF41R2. LI56 23289180 COIL, PEAKING, TRF4180AF	1 F
LI57 23289228 COIL, PEAKING, TRF4R22AF	
△ LJ901 23200544 COIL, GEOMAGNETIC CORRECTION,	
TSB-2421AH	
LV01 23289840 COIL, PEAKING, TRF4100AT	
LV02 23103852 COIL, FILTER, TEM2028AH	
LV99 23103845 COIL, TEM2030AY	
LZ01 23238710 COIL, PEAKING, TRF4220AJ (32AF43)	
LZ02 23103145 FERRITE CHOKE, TEM2011AA (32AF43)	
LZ04 23103145 FERRITE CHOKE, TEM2011AA (32AF43)	
LZ05 23238714 COIL, PEAKING, TRF4100AJ (32AF43)	
LZ06 23103906 FILTER, CHIP BEAD INDUCTOR, TEM2118 (32AF43)	AS
LZ07 24000445 CHIP JUMPER, 1608TYPE (32AF43)	
LZ08 23238707 COIL, PEAKING, TRF4390AJ (32AF43)	
LZ11 23238710 COIL, PEAKING, TRF4220AJ (32AF43)	
LZ12 23238710 COIL, PEAKING, TRF4220AJ (32AF43)	
LZ020 23238714 COIL, PEAKING, TRF4100AJ	
LZ030 23103145 FERRITE CHOKE, TEM2011AA (32AF53)	
LZ200 23246316 COIL, CHIP INDUCTOR 4.7MMH,	
COLTRF44R7CR (32AF53)	
LZ210 23246317 COIL, CHIP INDUCTOR, TRF4100CR (32AF	E0\
LZ230 23103906 FILTER, CHIP BEAD INDUCTOR, TEM2118	,
(32AF53) LZ240 23103906 FILTER, CHIP BEAD INDUCTOR, TEM2118	,
(32AF53)	AS

Location No.	Parts No.	Description
LZ250	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ260	23103145	FERRITE CHOKE, TEM2011AA (32AF53)
LZ280	23103145	FERRITE CHOKE, TEM2011AA (32AF53)
LZ320	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS
		(32AF53)
LZ330	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ350	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ360	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ370	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ380	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ390	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ810	23103906	FILTER, CHIP BEAD INDUCTOR, TEM2118AS (32AF53)
LZ960	23246206	COIL, CHIP INDUCTOR, TRF48R2CG (32AF53)
△ T400	23224386	TRANSFORMER, FOCUS, TLN2220AH
T401	23224383	TRANSFORMER, DRIVE, TLN1098AL
1	23236672	TRANSFORMER, FLY-BACK, TFB4172AD
	23236683	TRANSFORMER, FLY-BACK, TFB4172ZD
△ T8012		
1	23211739	COIL, LINE FILTER, TRF3229AL
⚠ T840	23217572	TRANSFORMER, POWER EI28 11.5V, TPW1571AT
<u></u>	23217617	TRANSFORMER, CONV TRS ER4220, TPW3525AB
SEMICO	NDUCTORS	
Q201	23314163	TRANSISTOR, 2SA1162-Y
Q202	23314475	TRANSISTOR, 2SC2712-Y
Q203	23314475	TRANSISTOR, 2SC2712-Y
1	23114499	TRANSISTOR, RN1404
	23114499	TRANSISTOR, RN1404
	23114460	TRANSISTOR, RN1204
1	23319787	IC, LA7833S
1	72471082	SCREW, 3X10MM
Q370	23314962	TRANSISTOR, KTA1266 Y
Q390	23906596	IC, BA4558
Q391	23205079	TRANSISTOR, 2SC4686A
Q402	23114755	TRANSISTOR, 2SC2482FA-1
	23114733	TRANSISTOR, 2SC2655-Y
Q404	23314955	TRANSISTOR, 2SD2553(FA)
	72471082	SCREW, 3X10MM
Q460	23314141	TRANSISTOR, 2SC3852
	72471082	SCREW, 3X10MM
Q461	23314962	TRANSISTOR, KTA1266 Y
Q470	23314965	TRANSISTOR, KTC3198 Y
Q471	23114426	TRANSISTOR, 2SA1015-O(TEM
Q472	23314965	TRANSISTOR, KTC3198 Y
Q480	23114759	TRANSISTOR, 2SA949-Y
Q481	23314965	TRANSISTOR, KTC3198 Y
Q482	23314965	TRANSISTOR, KTC3198 Y
Q483	23114469	TRANSISTOR, RN2201
Q501	23906843	IC, TA1310N
Q503	23314475	TRANSISTOR, 2SC2712-Y
Q610	23906582	IC, AN5277
	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q611	70114261	TRANSISTOR, 2SC3326-A
Q612	23314163	TRANSISTOR, 2SA1162-Y
Q613	70114261	TRANSISTOR, 2SC3326-A

Location No.	Parts No.	Description
Q706	23314965	TRANSISTOR, KTC3198 Y
Q707	23314965	TRANSISTOR, KTC3198 Y
	23314965	TRANSISTOR, KTC3198 Y
	23314962	TRANSISTOR, KTA1266 Y
	23314909	TRANSISTOR, 2SA1837
	23314912	TRANSISTOR, 2SC4793
	23314965	TRANSISTOR, KTC3198 Y
	23314965	TRANSISTOR, KTC3198 Y
	23135039	IC, HYBRID VDSS=450V, STR-G9628
	72471082	SCREW, 3X10MM TRANSISTOR. RN1205
Q830	23114459 23009188	IC, KIA7805API
	70391355	SCREW, BIND HEAD TAP-TITE B,
QOOOD	70091000	BITTB 3X8 SZN
Q835	23009187	IC, REGULATOR +9V 4%, KIA7809API
Q835B	70391355	SCREW, BIND HEAD TAP-TITE B,
40002		BITTB 3X8 SZN
Q840	23009440	IC, REGULATOR +5V 4% DIP8, NJM78LR05BD
Q843	23114459	TRANSISTOR, RN1205
△ Q862	23009270	IC, PHOTO COUPLER, PS2581L1(D)
	23319692	IC, SE130N, LF4
Q901	23314780	TRANSISTOR, 2SC4544
Q902	23314965	TRANSISTOR, KTC3198 Y
Q903	23314780	TRANSISTOR, 2SC4544
Q904	23314965	TRANSISTOR, KTC3198 Y
Q905	23314780	TRANSISTOR, 2SC4544
Q906	23314965	TRANSISTOR, KTC3198 Y
Q907	23314962	TRANSISTOR, KTA1266 Y
Q908	23114429	TRANSISTOR, 2SC2120-Y(TE
Q910	23314965	TRANSISTOR, KTC3198 Y
Q911	23314965	TRANSISTOR, KTC3198 Y
Q912	23314962	TRANSISTOR, KTA1266 Y
Q913	23314962	TRANSISTOR, KTA1266 Y
Q914	23314965	TRANSISTOR, KTC3198 Y
Q920 Q921	23314965 23314965	TRANSISTOR, KTC3198 Y TRANSISTOR, KTC3198 Y
Q922	23314965	TRANSISTOR, KTC3198 Y
Q923	23314965	TRANSISTOR, KTC3198 Y
Q924	23314965	TRANSISTOR, KTC3198 Y
	23314965	TRANSISTOR, KTC3198 Y
	23906946	IC, CM0016AD
Q4460	23314475	TRANSISTOR, 2SC2712-Y
Q4461	23314475	TRANSISTOR, 2SC2712-Y
Q4462	23314475	TRANSISTOR, 2SC2712-Y
QA01	23009451	IC, MCU 1CHIP 8BIT 8M 42P,
		TMP88CS38BN-4NA2
QA02	23009328	IC, AT24C16-10PI-2.7
QB03	23114459	TRANSISTOR, RN1205
QB11	23114528	TRANSISTOR, 2SC1740S
QB22	70114402	TRANSISTOR, 2SC3437-Y
QB23	23314475	TRANSISTOR, 2SC2712-Y
QB30	23314965	TRANSISTOR, KTC3198 Y
QB40	23314475	TRANSISTOR, 2SC2712-Y
QB41 QD41	23314475 23009377	TRANSISTOR, 2SC2712-Y IC, A-PRO BBE AGC SDMP30,
41	23009377	NJW1137M(TE1) (32AF53)
QG01	23009321	IC, US MTS DECODER QFP 48P T6, CXA2134Q-T6
QG60	23906597	IC, BA4558F
QG61	23119228	IC, UPC1406HA
QG80	23314163	TRANSISTOR, 2SA1162-Y
QI01	23114611	TRANSISTOR, 2SC3357
Q102	23314994	TRANSISTOR, 2SA1576A106
Q103	23314993	TRANSISTOR, 2SC4081 Q
Q105	23009240	IC, VIF/SIF SSOP24PIN, TA1274F(FA03A5,EL)

No. Paris No. Description	Location	Donto No.	December
QS60 23314475 TRANSISTOR, 2SC2712-Y QS61 23314475 TRANSISTOR, RN2404 QS63 70114261 TRANSISTOR, 2SC3326-A QS64 70114261 TRANSISTOR, 2SC3326-A QS60 70129558 IC, BA45569 QV01 23000368 IC, MM1231XF QV05 23114500 TRANSISTOR, RN1403 QV10 230003659 IC, TMM1495XF QX01 230003659 IC, TC90A49F(ELP) QZ02 23314163 TRANSISTOR, RN1403 QX04 23314163 TRANSISTOR, ESA1162-Y (32AF43) QZ03 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ06 23314473 TRANSISTOR, 2SA1162-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ08 23314475 TRANSISTOR, 2SC2112-Y (32AF43) QZ00 23314475 TRANSISTOR, 2SC2112-Y (32AF53) QZ00 23314475 TRANSISTOR, 2SC2112-Y (32AF53) QZ200 23314475 TRANSISTOR, 2SC2112-Y (32AF53) </th <th>No.</th> <th>Parts No.</th> <th>Description</th>	No.	Parts No.	Description
QS61 23314475 TRANSISTOR, 2SC2712-Y QS62 23114493 TRANSISTOR, 2SC3326-A QS63 70114261 TRANSISTOR, 2SC3326-A QS64 70114261 TRANSISTOR, 2SC3326-A QS106 70129558 IC, MM1231XF QV01 23000368 IC, MM1251XF QV05 23114500 TRANSISTOR, RN1403 QV00 23314965 TRANSISTOR, RN1403 QV01 23000559 IC, TC90A49F(ELP) QZ02 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ03 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ06 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ06 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ08 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ09 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ00 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ10 23314475 TRANSISTOR, 2			
QS62 23114493 TRANSISTOR, 2SC3326-A QS64 70114261 TRANSISTOR, 2SC3326-A QS64 70114261 TRANSISTOR, 2SC3326-A QS101 23906597 IC, BA4558F QV01 23000368 IC, MM1495XF QV01 23114500 TRANSISTOR, RN1403 QV10 23114500 TRANSISTOR, RN1403 QV00 23314965 TRANSISTOR, SA1162-Y (32AF43) QZ02 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ05 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ06 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ040 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ040 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ040 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ040 2331463 TRANSISTOR, 2SC2712-Y (32AF53) QZ200 23314475			•
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QV01 23000368 IC, MM1495XF QV05 23114500 TRANSISTOR, RN1403 QV10 23114500 TRANSISTOR, RN1403 QV01 23314950 TRANSISTOR, KTC3198 Y QZ01 23000559 IC, TC90A49F(ELP) QZ02 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ05 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ06 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SC2712-Y (32AF43) QZ08 23314475 TRANSISTOR, 2SC2712-Y (32AF43) QZ030 23009241 IC, +2.6V 2% REG., R1121N2618-TR (32AF53) QZ040 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ040 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ210 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314475 TRANSISTOR, 2SC2712-Y (32AF53) <td< td=""><td>QS101</td><td>23906597</td><td>IC, BA4558F</td></td<>	QS101	23906597	IC, BA4558F
QV05 23114500 TRANSISTOR, RN1403 QV10 23114500 TRANSISTOR, RN1403 QV60 23314965 TRANSISTOR, RN1403 QV60 23314965 TRANSISTOR, RN1403 QV60 23300559 IC, TC90A49F(ELP) QZ02 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ05 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ05 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ06 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ08 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ08 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ09 23314463 TRANSISTOR, 2SA1162-Y (32AF43) QZ00 23314163 TRANSISTOR, 2SA1162-Y (32AF53) QZ00 23314475 TRANSISTOR, 2SA1162-Y (32AF53) QZ10 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ210 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ210 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ202 2331463 TRANSISTOR, 2SC2712-Y (32AF53) QZ202 2331463 TRANSISTOR, 2SC2712-Y (32AF53) QZ202 2331467 TRANSISTOR, 2SC2712-Y (32AF53) QZ202 2331467 DIODE, 1SS120-7 D201 23316817 DIODE, 1SS120-7 D202 23316817 DIODE, 1SS120-7 D202 23316817 DIODE, 1SS120-7 D202 23316817 DIODE, 1SS120-7 D203 23316817 DIODE, 1SS120-7 D204 23316817 DIODE, 1SS120-7 D205 23316817 DIODE, 1SS120-7 D205 23316819 DIODE, 2ENER, RD9.1ES D301 23376365 DIODE, 1SS133 D313 23118859 DIODE, 1SS133 D316 23316679 DIODE, ZENER, MTZJ12B D302 23316719 DIODE, ZENER, MTZJ12B D303 23316672 DIODE, ZENER, MTZJ12B D304 23316690 DIODE, ZENER, MTZJ15B D404 2331694 DIODE, ZENER, MTZJ15B D404 2331695 DIODE, ZENER, MTZJ16B D414 23316867 DIODE, ZENER, MTZJ16B D410 23316690 DIODE, ZENER, MTZJ16B D411 2311850 DIODE, ZENER, MTZJ16B D412 23118094 DIODE, ZENER, MTZJ16B D413 23118859 DIODE, ZENER, MTZJ16B D414 23316690 DIODE, ZENER, MTZJ16B D414 23316690 DIODE, ZENER, MTZJ16B D414 23316690 DIODE, ZENER, MTZJ16B D414 2	QS106	70129558	IC, MM1231XF
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QV60 23314965 TRANSISTOR, KTC3198 Y QZ01 23000559 IC, TC90A49F(ELP) QZ02 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ04 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ05 23314463 TRANSISTOR, 2SC2712-Y (32AF43) QZ06 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ08 23314475 TRANSISTOR, 2SC2712-Y (32AF43) QZ040 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ050 23314163 TRANSISTOR, 2SC1162-Y (32AF53) QZ050 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ210 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314163 TRANSISTOR, 2SC2712-Y (32AF53) </td <td></td> <td></td> <td></td>			
QZ01 23000559 IC, TC90A49F(ELP) QZ02 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ03 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ05 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ06 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ07 23314163 TRANSISTOR, 2SA1162-Y (32AF43) QZ03 23009241 IC, +2.6V 2% REG., R1121N261B-TR (32AF53) QZ040 23314163 TRANSISTOR, 2SA1162-Y (32AF53) QZ050 23314163 TRANSISTOR, 2SA1162-Y (32AF53) QZ040 23314475 TRANSISTOR, 2SC4712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ140 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ210 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314475 TRANSISTOR, 2SC2712-Y (32AF53) QZ220 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ250 23314163 TRANSISTOR, 2SC2712-Y (32AF53) QZ250 23314675 TRANSISTOR,			•
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D253 23118518 DIODE, ZENER, RD9.1ES D301 23357365 DIODE, 1N4004A-B5 D302 23118094 DIODE, EU2A D310 23118859 DIODE, 1SS133 D313 23118859 DIODE, 1SS133 D316 23316679 DIODE, ZENER, MTZJ6.8C D319 23316719 DIODE, ZENER, MTZJ12B D320 23316672 DIODE, ZENER, MTZJ5.6B D371 23118859 DIODE, ZENER, MTZJ5.6B D371 23118637 DIODE, ZENER VZ2.41-2.65 DO-34 RD2.4ESA B2 D395 D395 23316725 DIODE, ZENER, MTZJ15B D404 23316254 DIODE, ERC06-15 D406 23118094 DIODE, ZENER, MTZJ10B D411 23118520 DIODE, ZENER, RD3.2ES B2 D430 23118510 DIODE, ZENER, RD12ES D441 23316687 DIODE, ZENER, MTZJ9.1B D442 23118094 DIODE, ZENER, MTZJ9.1B D442 23118094 DIODE, ED2A D460 23316969 DIODE, ED2A			
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D411 23118520 DIODE, ZENER, RD8.2ES B2 D430 23118510 DIODE, ZENER, RD12ES D441 23316687 DIODE, ZENER, MTZJ9.1B D442 23118094 DIODE, EU2A D460 23316969 DIODE, ERD29-06 D462 23118859 DIODE, 1SS133 D463 23118859 DIODE, 1SS133	D406	23118094	DIODE, EU2A
D430 23118510 DIODE, ZENER, RD12ES D441 23316687 DIODE, ZENER, MTZJ9.1B D442 23118094 DIODE, EU2A D460 23316969 DIODE, ERD29-06 D462 23118859 DIODE, 1SS133 D463 23118859 DIODE, 1SS133	D409		
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D442 23118094 DIODE, EU2A D460 23316969 DIODE, ERD29-06 D462 23118859 DIODE, 1SS133 D463 23118859 DIODE, 1SS133			
D460 23316969 DIODE, ERD29-06 D462 23118859 DIODE, 1SS133 D463 23118859 DIODE, 1SS133			
D462 23118859 DIODE, 1SS133 D463 23118859 DIODE, 1SS133			
D463 23118859 DIODE, 1SS133			
D400 Z3110030 DIQDE, ZENEK, KDZ./ESA BZ	D466	23118635	DIODE, ZENER, RD2.7ESA B2
D467 23118094 DIODE, EU2A			
D471 23118094 DIODE, EU2A	D471	23118094	

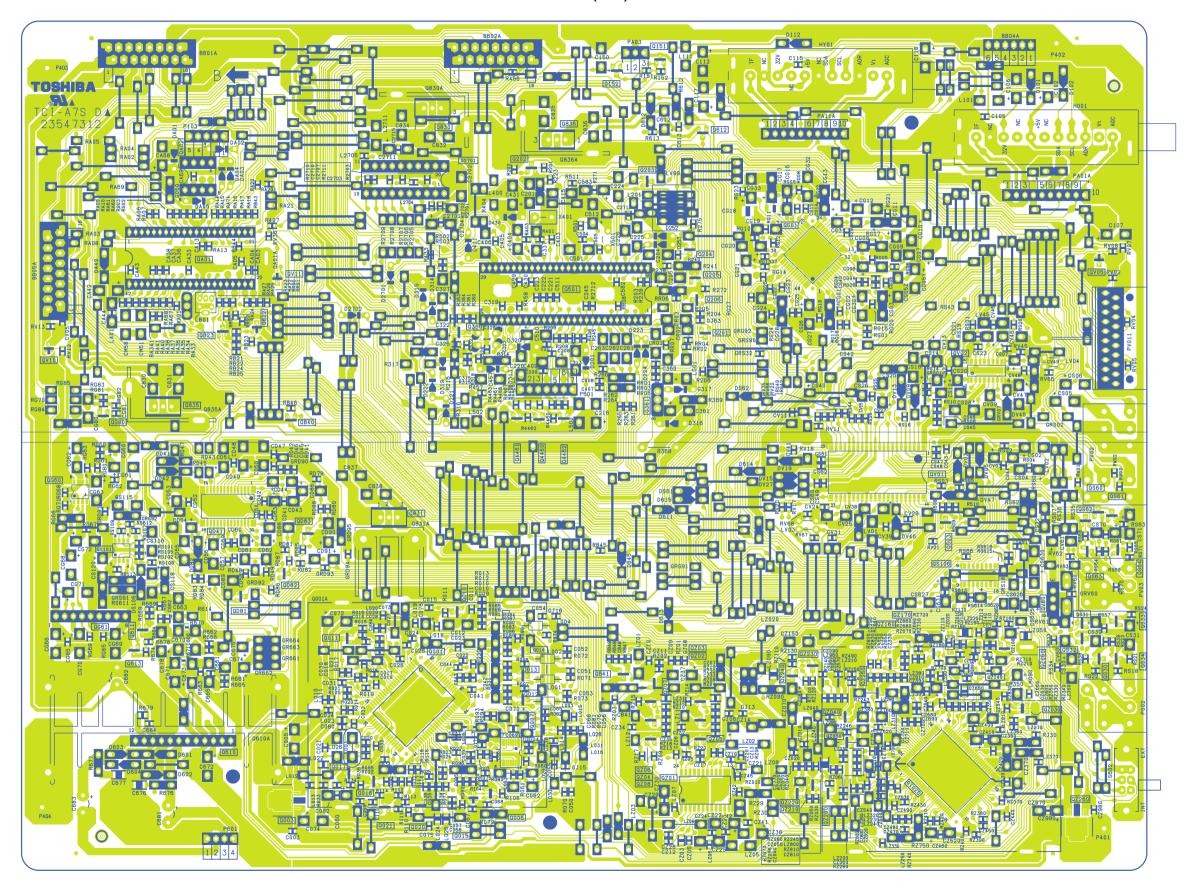
Location No.	Parts No.	Description
l	23115774	DIODE, ZENER, RD6.2E(FA-1)
	23118859	DIODE, 1SS133
	23316681	DIODE, ZENER, MTZJ7.5B
	23118859	DIODE, 188133
	23118859	DIODE, 1SS133 DIODE, 1SS133
	23118859 23118859	DIODE, 188133
	23118859	DIODE, 188133
	23118859	DIODE, 1SS133
	23118859	DIODE, 1SS133
	23118859	DIODE, 1SS133
D720	23118859	DIODE, 1SS133
D721	23118859	DIODE, 1SS133
△ D801	23316391	DIODE, D3SB60(4103)
D805	23118859	DIODE, 1SS133
1	23357366	DIODE, FR105-B5
	23118859	DIODE, 1SS133
	23316269	DIODE, AK04
· ·	23118859	DIODE, 188133
	23357365	DIODE, 1N4004A-B5
	23357365	DIODE, 1N4004A-B5
	23357365	DIODE, 1N4004A-B5 DIODE, 1N4004A-B5
	23357365 23118859	DIODE, 1N4004A-B5 DIODE, 1SS133
	23118859	DIODE, 188133
	23118635	DIODE, TOSTOS DIODE, ZENER, RD2.7ESA B2
	23357344	DIODE, RU3AM (32AF43)
	23118338	DIODE, RU4AM LF-K2 (32AF53)
	23357366	DIODE, FR105-B5
D890	23118052	DIODE, RU4Z LF-L1
△ D899	24019485	VARISTOR, TNR10V431K
D901	23118859	DIODE, 1SS133
D903	23118859	DIODE, 1SS133
D904	23118859	DIODE, 1SS133
D905	23118859	DIODE, 1SS133
	23118859	DIODE, 1SS133
	23118859	DIODE, 188133
	23118859	DIODE, 188133
	23118859 23118859	DIODE, 188133
	23115337	DIODE, 1SS133 DIODE, 1S1834
D2701	23118859	DIODE, 18133
D2702	23118859	DIODE, 1SS133
	23115999	DIODE, 1S1832
	23115999	DIODE, 1S1832
DA42	23118529	DIODE, ZENER, RD5.6ES B2
DB01	23358571	DIODE, LED, BT-H254N-31-SH
DB03	23358522	DIODE, LED, SIR-56SB3F
DB05	23316675	DIODE, ZENER, MTZJ6.2B
	23118859	DIODE, 1SS133
DB45	23316817	DIODE, 1SS120-7
	23316669	DIODE, ZENER, MTZJ5.1B
DV46	23316716	DIODE, ZENER, MTZJ11B
DV47	23316686	DIODE, ZENER, MTZJ9.1A
MISCELL	ANEOUS	
B205	23974994	BAND, KESSOKU
B230	23037312	SCREW, BTBW3X12SZN
	23035412	SCREW, BTB4X12SZN
	23035312	SCREW, BTB3X12SZN
	23713201	CONNECTOR, PLUG B-B 16P
	23713202	CONNECTOR, SOCKET B-B 16P
	23713201	CONNECTOR, PLUG B-B 16P
DB05B	23713202	CONNECTOR, SOCKET B-B 16P
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L	ocation No.	Parts No.	Description
	BB03C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
l	BB04A	23902749	CONNECTOR, SOCKET, B-B 6P
l	BB04B		CONNECTOR, PLUG, B-B 6P
l		23713201	CONNECTOR, PLUG B-B 16P
l		23713013	CONNECTOR, SOCKET, B-B 16P 1.5
l	BB160	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST
l			08TM-2.5FJ-E
l	BB16A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
l	BB16B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
l	BB16C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST
l			08TM-2.5FJ-E
Δ	F470	23144854	FUSE, 125V 1.6A-T U/C MINI
١,	F470A	23165433	FUSE HOLDER, 5.2 SOC
	F801	23144518	FUSE, CARTRIDGE, 125V 10A
l	F801A	23165433	FUSE HOLDER, 5.2 SOC
 	F801B	23165433 23144681	FUSE HOLDER, 5.2 SOC FUSE, CARTRIDGE 5X20, 125V 4.0A
	F802 F802A		FUSE HOLDER, 5.2 SOC
1	F802B	23165433	FUSE HOLDER, 5.2 SOC
	F804	23144681	FUSE, CARTRIDGE 5X20, 125V 4.0A
	F804A	23165433	FUSE HOLDER, 5.2 SOC
1	F804B		FUSE HOLDER, 5.2 SOC
	G040	23103145	FERRITE CHOKE, TEM2011AA
l	G060	24366470	CARBON FILM, 1/6W 47 OHM J
	G114	23103880	COIL, CHOKE, TEM2011Y
	G217	24366273	CARBON FILM, 1/6W 27K OHM J
	G301	24366102	CARBON FILM, 1/6W 1K OHM J
	G317	23118859	DIODE, 1SS133
	G380	24946226	CARBON CONPOSITION, 1/2W 22M OHM K
	G403	24946223	CARBON COMPOSITION, GF 1/2W 22K K
	G405	24214472	CERAMIC DISC, 500V B 4700PF K
	G463	23103859	FILTER, FERRITE CHOKE, TEM2011
	G465 G845	24366332 23103145	CARBON FILM, 1/6W 3.3K OHM J FERRITE CHOKE, TEM2011AA
	GJ04	23238714	COIL, PEAKING, TRF4100AJ (32AF43)
	GJ06	24000445	CHIP JUMPER, 1608TYPE (32AF43)
	GJ08	24000445	CHIP JUMPER, 1608TYPE (32AF43)
	GJ13	24000445	CHIP JUMPER, 1608TYPE (32AF53)
	GRD91	24000445	CHIP JUMPER, 1608TYPE (32AF53)
	GRD93	24000445	CHIP JUMPER, 1608TYPE (32AF43)
	GRD94	24000445	CHIP JUMPER, 1608TYPE (32AF43)
		24000445	CHIP JUMPER, 1608TYPE
l		24000445	CHIP JUMPER, 1608TYPE
l		24000445	CHIP JUMPER, 1608TYPE
l	KB01	23906805	IC, REMOTE PHOTO RECIEVER, PIC-TB17
		23192957	ANODE CAP ASSY, TCC5602AT
	-	23505090	CABLE, CABLE FOCUS CABLE, FOCUS
		23505089 23504719	CABLE, FOCUS CABLE, SCREEN
l	N726	23969041	TAPE WHITE 3M #1, W=1 INCH,
l	20	_00000+1	TNP COMMON
Δ	P801	23372113	POWER CORD.
<u> </u>	-		U/C 125V10A HSV 2 CMC-02P 1
	P910	23164725	CONNECTOR, PLUG 2P
	PV02	23365949	JACK, 5P, 1E:OFF+2R:OFF+2L:OFF, JALC
l	PV03	23365821	PIN JACK, 3P, 1E:OFF+1R:OFF+1L:OFF
	PV05	23365819	JACK, 1S3P
	PV011	23365238	CONNECTOR, JACK,
			1S:SW+P(1E+1E:F+2R:F+2L:F)
	SA01	23145227	SWITCH, PUSH, 1C1P
	SA02	23145227	SWITCH, PUSH, 1C1P
	SA03	23145227	SWITCH, PUSH, 1C1P
	SA04 SA05	23145227 23145227	SWITCH, PUSH, 1C1P SWITCH, PUSH, 1C1P
L	UNUS	20173221	OWITOH, LOOH, TOTE

Location No.	Parts No.	Description
SA06	23145227	SWITCH, PUSH, 1C1P
SA07	23145227	SWITCH, PUSH, 1C1P
SA08	23145227	SWITCH, PUSH, 1C1P
∆ SR81	23146564	RELAY, DC12V, TV5, DG-3
SR83	23146564	RELAY, DC12V, TV5, DG-3
∆ V901A	23903027	CRT SOCKET, 8P SMK CVT3251-0176
		CVT3251-0176
W661	23351128	SPEAKER, SPK1389, 60X120 16-OHM 6W
W662	23351128	SPEAKER, SPK1389, 60X120 16-OHM 6W
X401	23153721	CERAMIC RESONATOR, 503KHZ
X501	23153961	CRYSTAL, 3.58MHZ
		CERAMIC RESONATOR, 8.00MHZ 25OHM
XA01	23153504	
Z401	23140203	SPARK GAP, 2.0-3.0KV C-010,
		AG20PC152F-L3N
ZI51	23303197	PIF SAW FILTER, TSF1248P
ZI52	23303271	FILTER, TRAP 4.5MHZ, TCF1138AM
ZI53	23303289	FILTER, TCF1141AM
ZI55	23303244	FILTER, CERAMIC TRAP, TCF1121AM
PC BOAF	RD ASSEMI	BLIES
* U001	23788269	IF BOARD, PD1022A
* U801	23788568	POWER/DEF BOARD, PD1019E (32AF43)
* U801	23788309	POWER/DEF BOARD, PD1019C (32AF53)
* U901	23788267	CRT.D BOARD, PB9973M
* U902		SIGNAL BOARD, PD1208A (32AF43)
	23788302	SIGNAL BOARD, PD1208B (32AF53)
* UA01	23788270	CONTROL-1 BOARD, PD0658B
* UA01	23788271	CONTROL-1 BOARD, P. D0036B CONTROL-2 BOARD, PD1024A
ጥ UAU2	23/002/1	CONTROL-2 BOARD, FDT024A
PICTURE	_	
∆ V901	23324035	PICTURE TUBE, 32VPF 1H STDIMP, A80AJZ90X07
TUNER		
△ H001	23321456	TUNER, US181CH IIC F 5V, ELA51LX7
ACCESSO	RIES	
Λ002000 Δ K912	23306495	REMOCON HAND UNIT IR, CTVUSA,
△ N912	23300493	CT-90157 (32AF43)
∆ K912	23306496	REMOCON HAND UNIT IR, CTVUSA,
- NO 12	20000100	CT-90158 (32AF53)
∆ Y101	23565902	OWNER'S MANUAL, ENGLISH/FRENCH,
١١٥١ ڪ	20000002	32AF43
∆ Y101	23565903	OWNER'S MANUAL, ENGLISH/FRENCH,
		32AF53
CABINET	PARTS	
A201	23530811	COVER, FRONT COVER ASSY 32AF43 (32AF43)
A201	23530819	COVER, FRONT COVER ASSY 32AF53
		(32AF53)
A213	23428070	DOOR, DOOR 36AF62 (32AF43)
A213	23428191	DOOR, DOOR REG BBE 32AF53 (32AF53)
A214	23451976	PUSH CATCH, CLICK
A223	23445611	BUTTON, POWER BUTTON 36AF62, 36AF62
A224	23445610	BUTTON, CONTROL BUTTON 36HFX72, 36HFX72
A411	23540021	
A411	23540031	COVER, BACK COVER PROPER, 32AFX60
A704	23064255	CARTON, CARTON, 32AF60
A701		PACKING, TOP PACKING 32AFX60, 32AFX60
A701 A703 A708	23946056 23946057	PACKING, BOTTOM PACKING 32AFX60,

SIGNAL BOARD PD1208

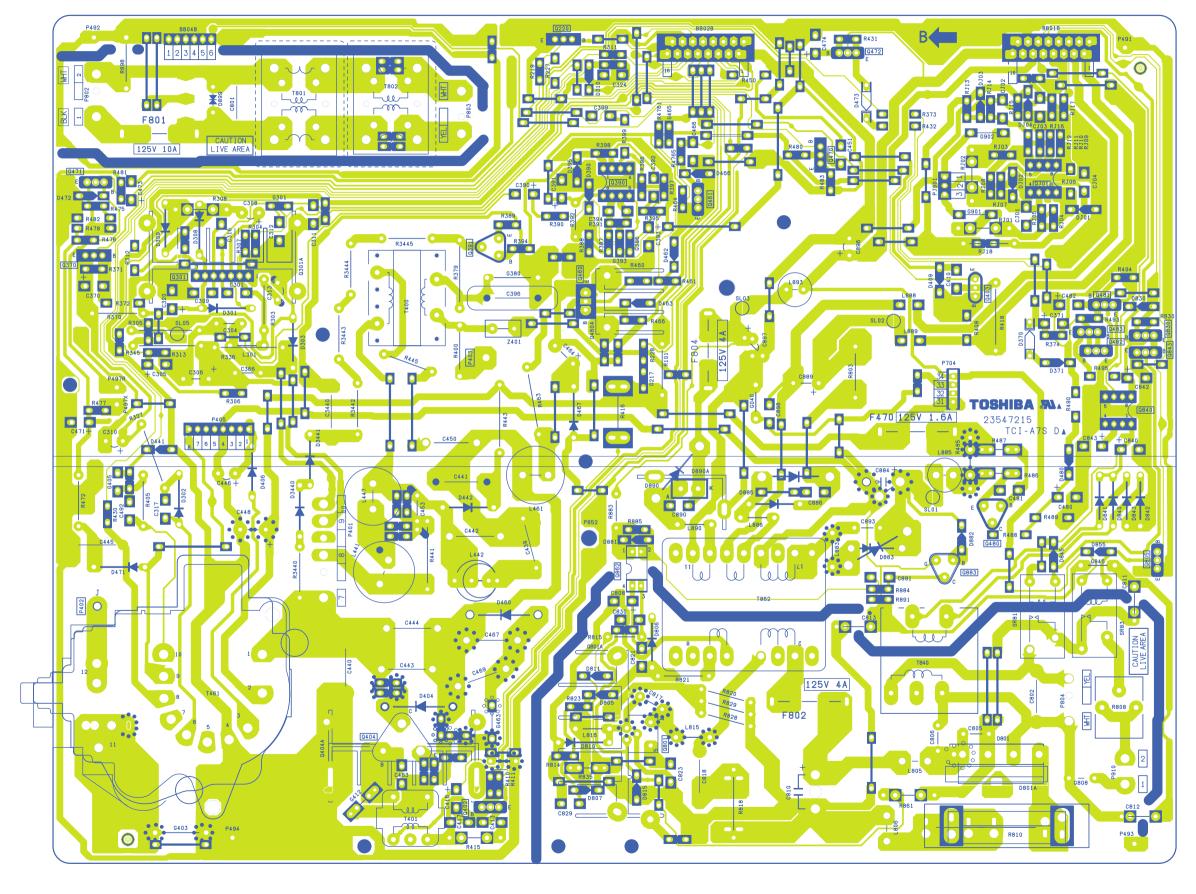
BOTTOM (FOIL) SIDE



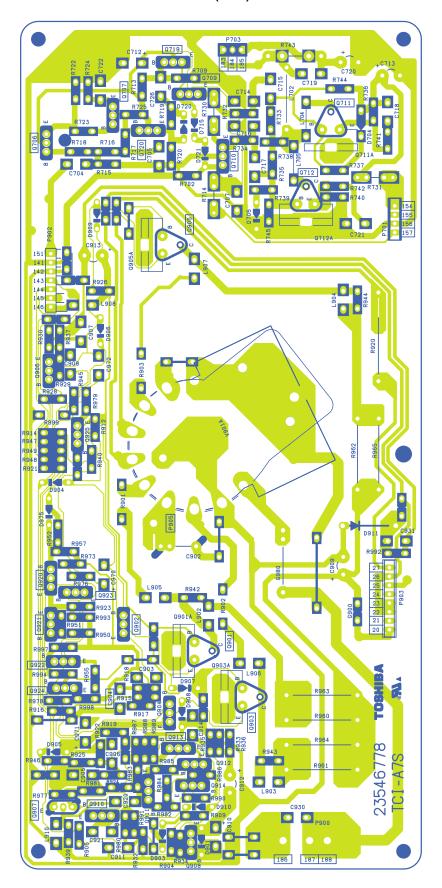
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- 29 -

POWER/DEF BOARD PD1019



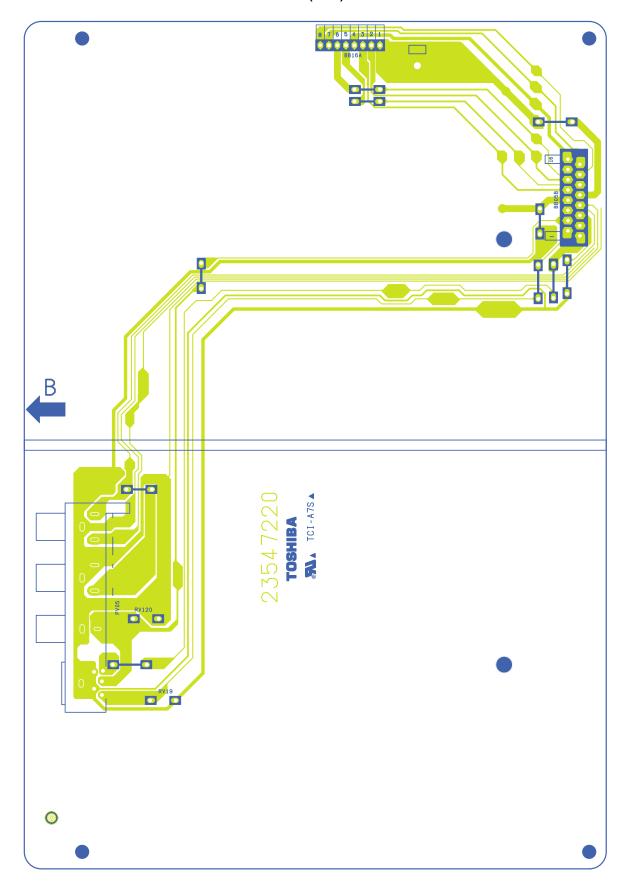
CRT DRIVE BOARD PB9973M



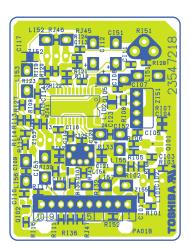
CONTROL-1 BOARD PD0658B



CONTROL-2 BOARD PD1024A

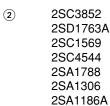


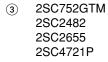
IF BOARD PD1022A



TERMINAL VIEW OF TRANSISTORS

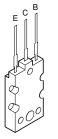


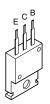








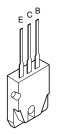






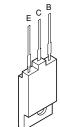
ON4409





RN2203
 RN2201
 RN2004
 RN1203
 RN1204
 RN2204
 RN1205
 RN1202
 RN1201

E C B

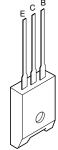


2SD1554 2SD2253 2SD1556 2SD2553 2SC5143

7



(8)



SCHEMATIC DIAGRAM

MODEL: 32AF43 / 32AF53

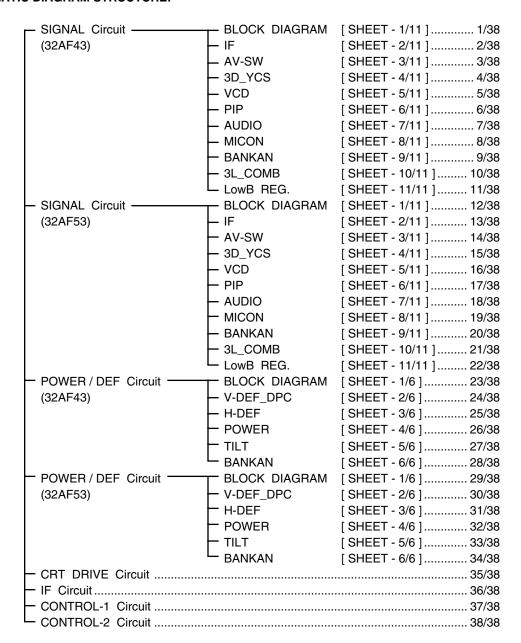
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

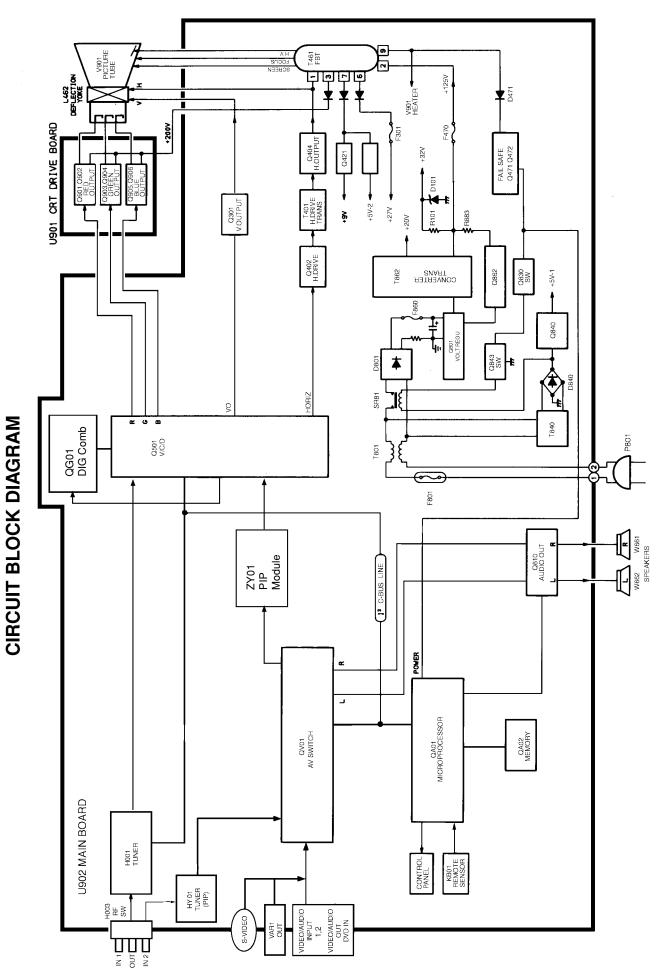
CAUTION: The international hazard symbols "\textit{\textit{\textit{D}}}" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

- 3. The parts indicated with " 🛆 " have special characteristics, and should be replaced with identical parts only.
- 4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 120 volts.
- 5. Waveforms are taken receiving color bar signal with enough sensitivity.
- 6. Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:





SPECIFICATIONS (Representative : 32AF43)

TELEVISION SYSTEM NTSC standard

CHANNEL COVERAGE VHF: 2 through 13

UHF: 14 through 69

Cable TV: mid band (A-8 through A-1, A through I)

super band (J through W)

hyper band (AA through ZZ, AAA, BBB) ultra band (65 through 94, 100 through 125)

POWER SOURCE 120V AC, 60Hz

AUDIO POWER 5W + 5W

SPEAKER TYPE 2-3/8 x 4-3/4 inches (60 x 120 mm)

VIDEO/AUDIO TERMINALS S-VIDEO INPUT

Y: 1V (p-p), 75 ohm, negative sync. C: 0.286V (p-p) (burst signal), 75 ohm

VIDEO/AUDIO INPUT

VIDEO: 1V(p-p), 75 ohm, negative sync.

AUDIO: 150mV(rms) (30% modulation equivalent, 47k ohm) ColorStream™ (Color Difference) VIDEO/AUDIO INPUT

Y: 1V (p-p), 75 ohm Cr: 0.7V (p-p), 75 ohm Cb: 0.7V (p-p), 75 ohm AUDIO: 2V (p-p), 1 kohm

DIMENSIONS Width 875 mm

Height 670 mm Depth 575 mm

MASS 74.5 kg (Approx.)

^{*} Please refer to owner's manual in detail.

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN